



magicolor® 2450

Reference Guide

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1800773-001A

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Contents

1 Operation on Mac OS X	1
System Requirements for the Printer Driver	2
Installing the Printer Driver	3
Installing the magicolor 2450 Printer Driver	3
Printer Setup Utility Settings	6
When Using a USB Connection	6
When Using a Network Connection	9
AppleTalk Setting	9
IP Printing Setting	12
Selecting Print Options	15
Specifying Page Setup Settings	17
Page Attributes Options	18
Custom Paper Size Options	19
Summary	20
Specifying Print Settings	21
Print Dialog Box	22
Common buttons	23
Copies & Pages	24
Layout	25
Output Options	26

Scheduler	27
Paper Handling	28
ColorSync	29
Cover Page	29
Error Handling	30
Paper Feed	31
Quality Adjustment Settings	32
Image	33
Graphics	34
Text	35
Simulation	36
Summary	37
Troubleshooting	38
2 Operation on Mac OS 9	41
System Requirements for the Printer Driver	42
Installing the Printer Driver	43
Selecting the Printer in the Chooser	45
Specifying Page Setup Settings	47
Page Attributes Options	47
Specifying a Custom Paper Size	48
Specifying Print Settings	50
Print Dialog Box Options	51
Common buttons	52
General Options	53
Background Printing	54
Color Matching	55
Cover Page	56
Font Settings	57
Job Logging	58
Layout	59
Save as File	60
Watermark	61
Job Retention	62
Quality Adjustment Settings	63
Image	64
Graphic	65
Text	66
Simulation	67
Checking Print Jobs	68
Troubleshooting	69

3	Operation on Linux	71
	System Requirements for the Printer Driver	72
	Installing PPD File From the Command Line	73
	Adding the Printer	74
	Specifying Printer Driver Settings	76
	Displaying the Settings Page	76
	Printer Driver Settings	77
	Basic Features	77
	Details	78
	Installed Options	79
	Banners	80
	PS Binary Protocol	80
	Printing a Document	81
	Example Using LPR Command	81
	Example Using OpenOffice	82
	Checking Print Jobs	85
	Troubleshooting	86
4	Printer Management Utilities	87
	Installing Printer Management Utilities on Windows	88
5	Understanding the Ethernet Configuration Menus	91
	Ethernet Menu	92
	Location within the Configuration Menu	92
	Accessing the Ethernet Menu	93
	Using the Ethernet Menu Options	94
	TCP/IP	94
	IPX/SPX	96
	EtherTalk	96
	Ethernet Speed	97
6	Network Printing	99
	Network Connection	100
	Theory	100
	Making the Connection	101
	Ethernet Interface	101
	Using DHCP	101
	Setting the Address Manually	102
	Network Printing	106
	BOOTP	106
	DHCP	106
	HTTP	107
	IPP	107
	LPD/LPR	107
	SLP	107
	SNMP	108

Port 9100	108
SMTP	108
Printing via IPP (Internet Printing Protocol) – Windows Server 2003/XP/2000	109
Adding an IPP Port using Add Printer Wizard	109
Troubleshooting	111
7 Using PageScope Web Connection	113
About PageScope Web Connection	114
Display Language	114
Requirements	114
Setting Up the Printer Web Page	116
Determining the Printer Name	116
Setting Up Your Browser Software	116
Internet Explorer (version 6.0 for Windows)	117
Netscape Navigator (version 7.1)	118
Safari (version 1.1)	118
Understanding the PageScope Web Connection Window	119
Navigation	119
Current Status	120
User Mode	120
Administrator Mode	120
Configuring the Printer	121
System Page	121
Summary (shown above)	121
Operator Control	123
Paper Handling	123
Tray Mapping	128
Color Matching & Quality	130
Supplies Status	132
Administration	133
Startup Options & Resets	133
Localization Languages	136
E-Mail Configuration	138
Date & Time	140
Security	141
Online help	143
Print System Pages	145
Configuration Page	146
Statistics Page	147
Disk Operations	148
Job Page	150
Job Listing (shown above)	150
Print Stored Job	151
Direct Printing	152
Capture Print Job	153

Print Page 154
 Local Interface 154
 Default Setting 155
 Download Font/Form 161
Network Page 165
 Ethernet 165
 Request a certificate 179
 Certificate Signing Request Data 181
 Install a Certificate 182
 Encryption Strength 183
 Remove Certificate 184
 SSL/TLS Mode 185
Accounting Page 186
 Printer-based Job Accounting (shown above) 186
 Printer-based Error Accounting 188

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1

***Operation on
Mac OS X***

System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer with a PowerPC G3 or later processor (PowerPC G4 or later is recommended)
Connecting the computer and printer	USB connection, network connection (10Base-T/100Base-TX/1000Base-T)
Operating system	Mac OS X 10.2 or later (We recommend installing the newest patch.) Mac OS X Server 10.2 or later
RAM	More than OS recommendation (128 MB or more is recommended)
Available disk space	256 MB or more (for storing images)

Installing the Printer Driver



You must have administrator privileges in order to install the printer driver.



Before proceeding with the installation, be sure to exit all running applications.

Installing the magicolor 2450 Printer Driver



The procedure for installing the printer driver on Mac OS X 10.3 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 1 Insert the magicolor 2450 Software Utilities CD-ROM in the CD/DVD drive of your Macintosh.
- 2 Double-click the CD icon on the desk top, drivers folder, mac folder, OSX folder, and then double click the **mc2450PS Installer** icon.



mc2450PS Installer

The installer for the printer driver starts up.



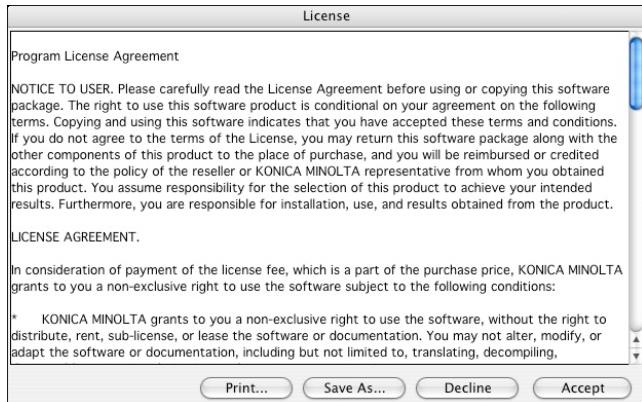
For the following languages, use the corresponding installer.

- Korean: mc2450PS Installer ko
- Simplified Chinese: mc2450PS Installer chs
- Traditional Chinese: mc2450PS Installer cht



When using Mac OS X, start up the Classic environment before installing the printer driver.

- 3** Check the details of the License Agreement, and click **Accept** if you agree to the terms of the license.

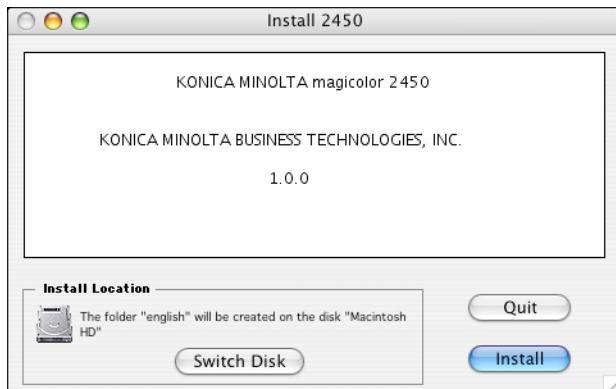


- 4** Click **Install Software**.



*The **Install 2450** dialog box appears.*

5 Click Install.

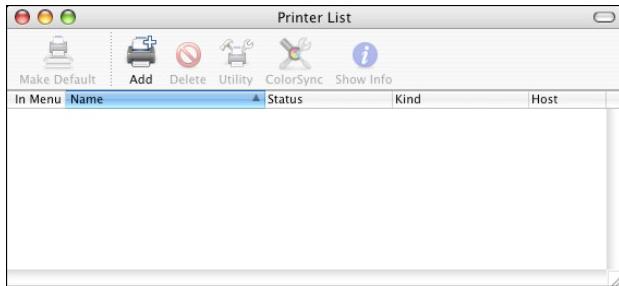


Installation starts.

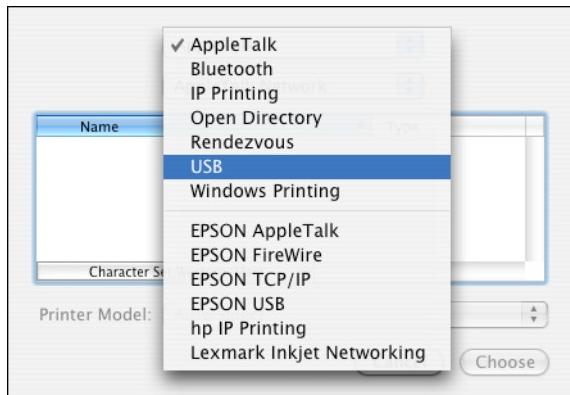
Printer Setup Utility Settings

When Using a USB Connection

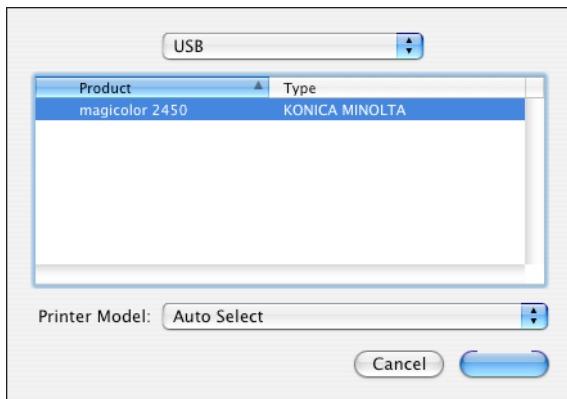
- 1 Use a USB cable to connect the printer to your computer.
- 2 Check that the printer is turned on, and then restart the computer.
- 3 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 4 In the **Printer List**, click **Add**.



- 5 Select **USB** from the pop-up menu.



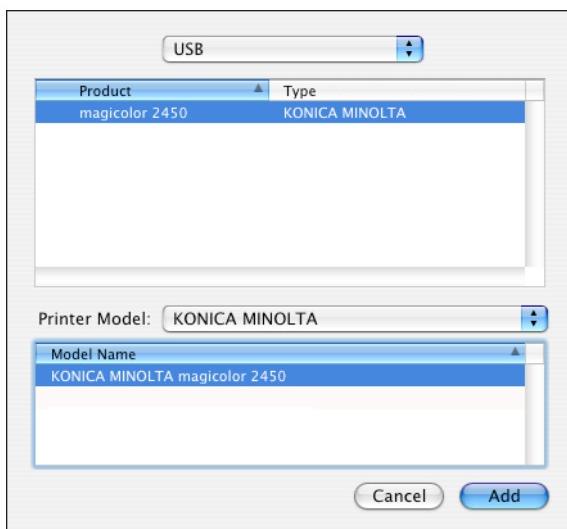
6 Select **magicolor2450** in the **Product** list.



 If **magicolor2450** does not appear, check that the printer is turned on and the USB cable is connected, and then restart the computer.

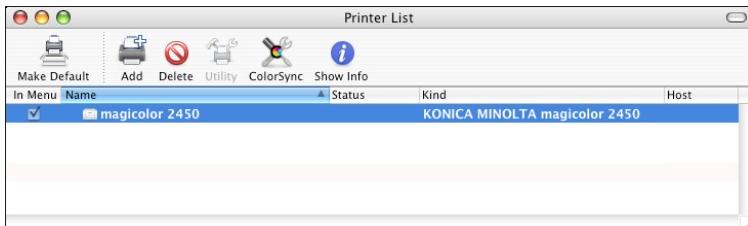
7 Select **KONICA MINOLTA** from the **Printer Model** pop-up menu.

8 Select **KONICA MINOLTA mc2450 PPD** from **Model Name** list.



9 Click **Add**.

*The new printer appears in the **Printer List** screen.*



When Using a Network Connection

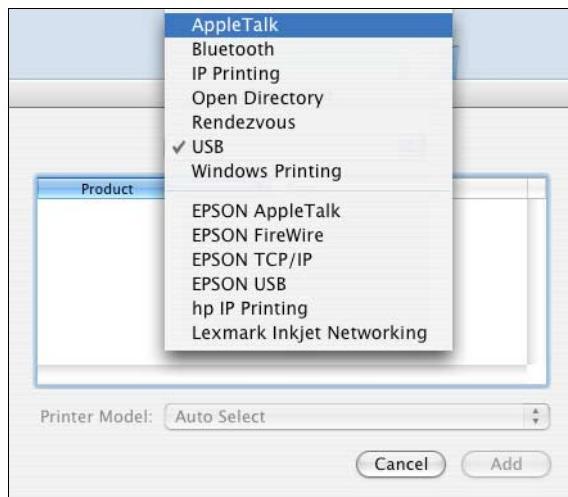
The network connection settings can be specified in one of two ways:
AppleTalk Setting and IP Printing Setting.

AppleTalk Setting

- 1 Connect the printer to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 3 Click Add in the **Printer List**.

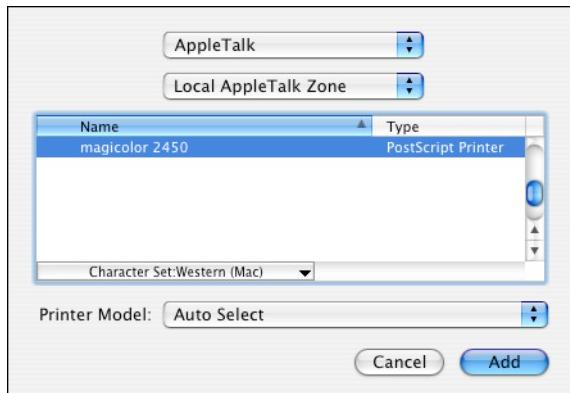


- 4 Select **AppleTalk** from the pop-up menu.

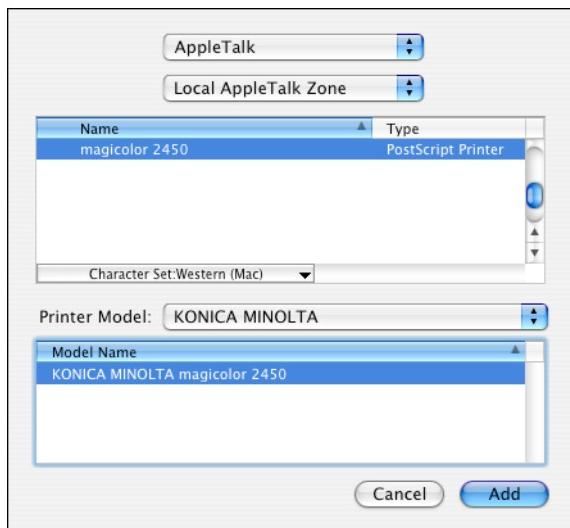


The AppleTalk screen appears.

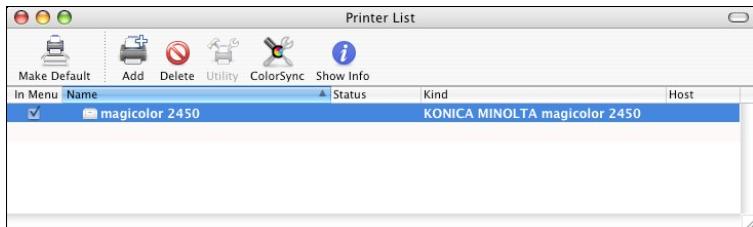
- 5** Select **magicolor2450** from the **Name** list.



- 6** Select **KONICA MINOLTA** from the **Printer Model** pop-up list.



7 Click Add.



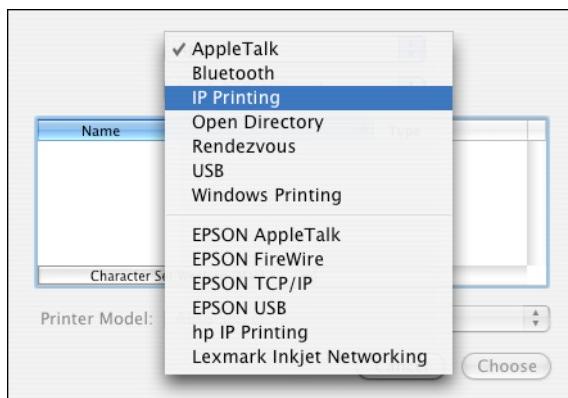
The new printer appears in the Printer List screen.

IP Printing Setting

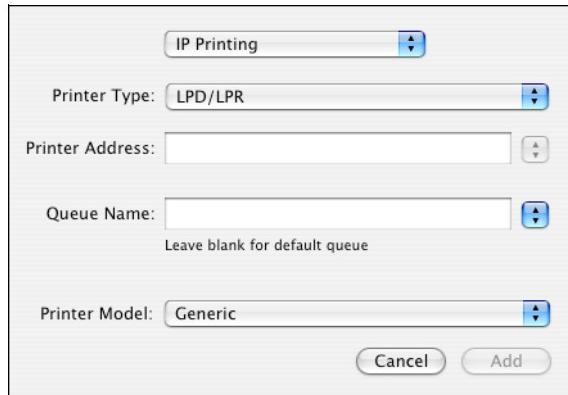
- 1 Connect the printer to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 3 Click **Add** in the **Printer List**.



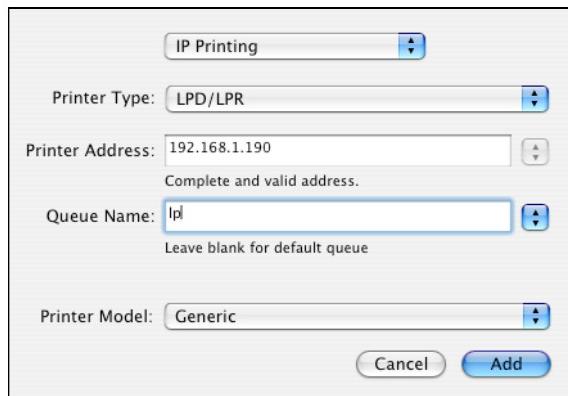
- 4 Select **IP Printing** from the pop-up menu.



The IP Printing screen appears.

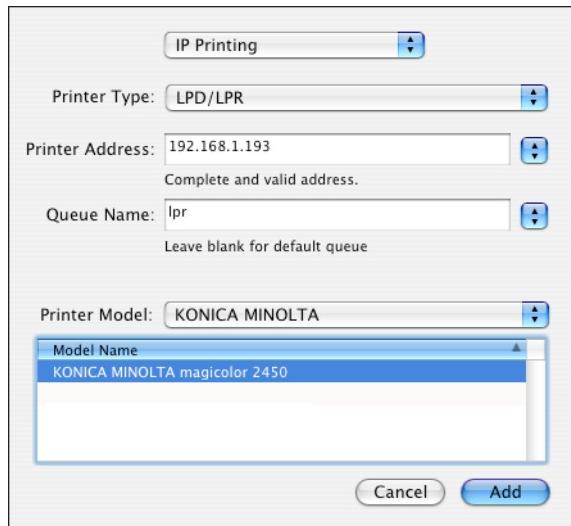


- 5 Select LPD/LPR from the **Printer Type** pop-up menu.
- 6 Enter the IP address for the printer in the **Printer Address** text box.
- 7 Enter "Ip" in the **Queue Name** text box.



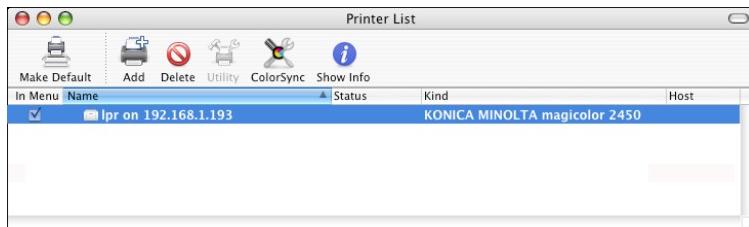
- 8 Select **KONICA MINOLTA** from the **Printer Model** pop-up menu.

9 Select **KONICA MINOLTA mc2450 PPD** in the **Model Name** list.



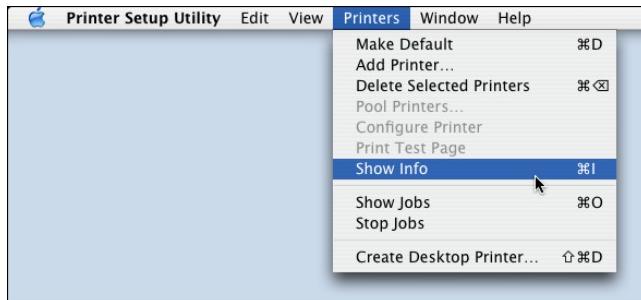
10 Click **Add**.

*The new printer appears in the **Printer List** screen.*

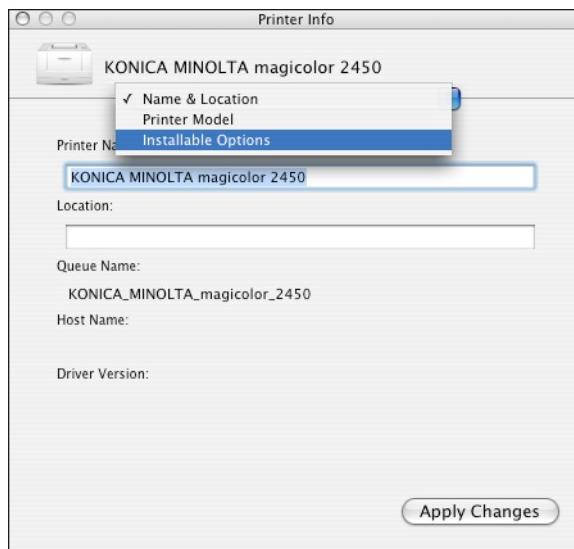


Selecting Print Options

- 1 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 2 Select this printer in the **Printer List**, and then select **Show Info** from the **Printers** menu.



- 3 Select **Installable Options** from the pop-up menu.



- 4** Select the appropriate settings in the **Tray 2, Optional Hard Disk, Optional Duplexer** check boxes according to your printer setup, and then click **Apply Changes**.

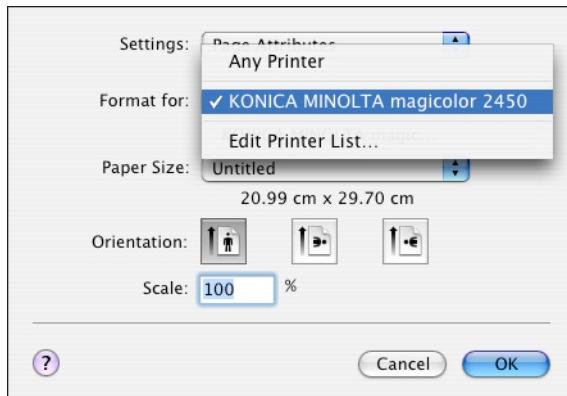


- 5** Close the **Printer Info** dialog box.

Specifying Page Setup Settings

The following dialog box appears when **Page Setup...** is selected from the **File** menu in the application being used.

- 1 Select **Page Setup...** from the **File** menu.
The **Page Setup** dialog box appears.
- 2 Select this printer in the **Format for** pop-up menu.

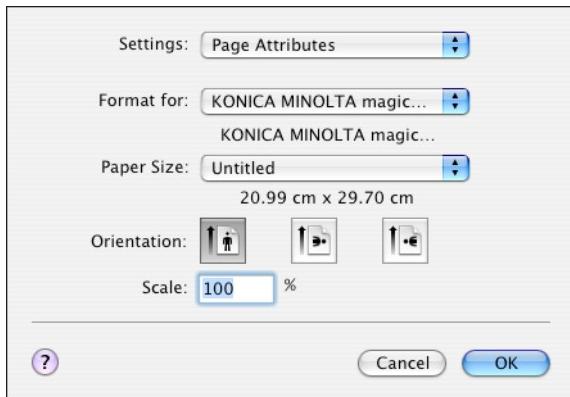


You can select the following sections from the **Settings** pop-up menu.

Section	Description
Page Attributes	This is used to specify the settings for the paper size, scaling, and print orientation.
Custom Paper Size	This is used to specify a custom paper size.
Summary	This is used to check the current settings.
Save As Default	This is used to save the new settings as the defaults.

Page Attributes Options

The **Page Attributes** section is used to specify the settings for the paper size, scaling, and print orientation.



■ Paper Size

Select the desired paper size from the Paper Size pop-up menu.

■ Orientation

Select either a vertical or horizontal page orientation for printouts.

■ Scale

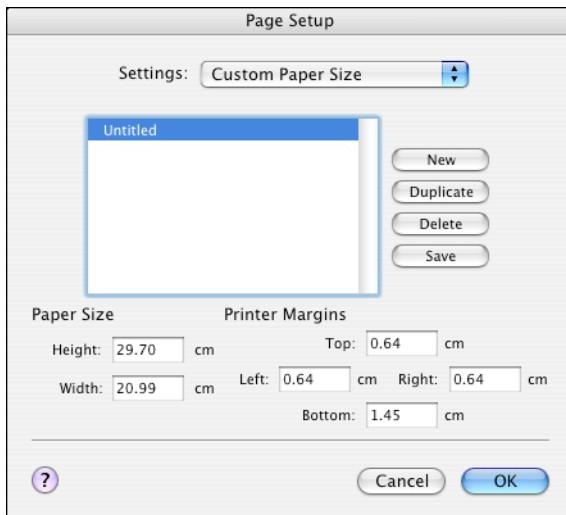
If you want to enlarge or reduce the size of the printout, enter the scale ratio here (1-400%)



Regardless of which paper size is selected, the printer does not print within 0.157" (4 mm) of the edge of the paper.

Custom Paper Size Options

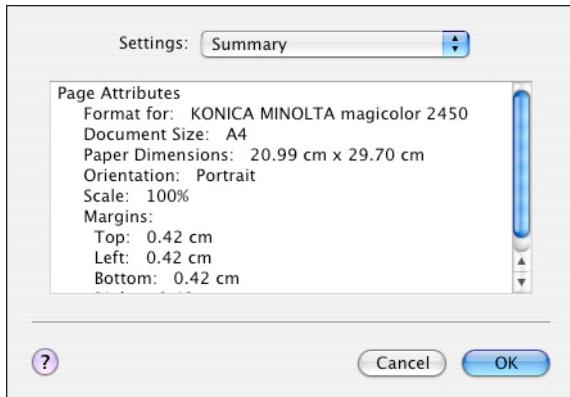
The **Custom Paper Size** section is used to specify the dimensions for a custom paper size.



- **New**
Click this button to create a new custom paper size.
- **Duplicate**
Click this button to duplicate (copy) the settings of an existing custom paper size and create a new custom paper size based on those settings.
- **Delete**
Click this button to delete a custom paper size.
- **Save**
Click this button to save the settings for the selected custom paper size.
- **Paper Size**
Enter the dimensions of the paper height and width for the custom paper size.
 - Height:** 5.9 - 14.0" (148 - 356 mm)
 - Width:** 3.6 - 8.5" (92 - 216 mm)
- **Printer Margins**
Enter the dimensions for the top, left, right, and bottom margins.

Summary

The **Summary** is used to check the currently selected Page Attributes settings.

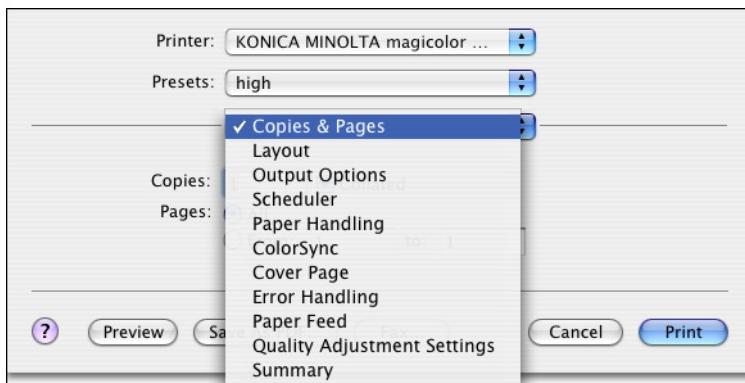


Specifying Print Settings

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.

- 1 Select **Print...** from the **File** menu.
The **Print** dialog box appears.
- 2 Select this printer in the **Printer** pop-up menu.
The Print dialog box is used to specify the following print options.

Print Dialog Box



Section	Description
Copies & Pages	This section contains options for the number of copies to be printed and the range of pages to print.
Layout	This section contains options for specifying the page layout when printing and the setting for double-sided printing.
Output Options	This section contains options for saving the print image as a file and for the format of saved data.
Scheduler	This section contains options for specifying the print timing and priority of jobs.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
ColorSync	This section contains options for specifying ColorSync settings.
Cover Page	This section contains options for specifying cover page settings.
Error Handling	This section contains options for specifying how an error is reported.
Paper Feed	This section contains paper feed options.
Quality Adjustment Settings	This section contains options for print quality settings.
Summary	This is used to check the current settings.



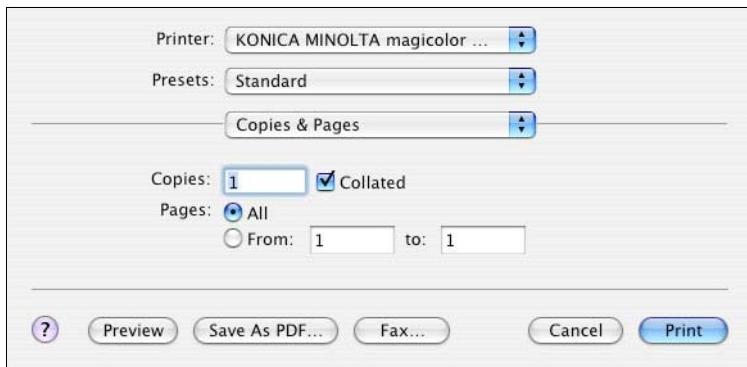
No warning message will be displayed if options cannot be used together are selected.

Common buttons

- ? (Help button)
This displays help information about the Print dialog box.
- Preview
Click this button to view a preview image of the printout, to check that the print options are set correctly.
- Save As PDF...
Click this button to save the print output as a PDF file.
- FAX
Click this button to apply the changes to the settings and to send a fax.
- Cancel
Click this button to close the Print dialog box without applying any of the settings.
- Print
Click this button to print using the selected print options.

Copies & Pages

The **Copies & Pages** section is used to specify the number of copies to print and the range of pages to print.



■ Copies

This specifies the number of copies to be printed. If the **Collated** checkbox is selected, all pages in the documents are printed as sets of print-outs.

For example, if 5 is entered for **Copies** and **Collated** is selected, the document is printed five times from the first page to the last page.

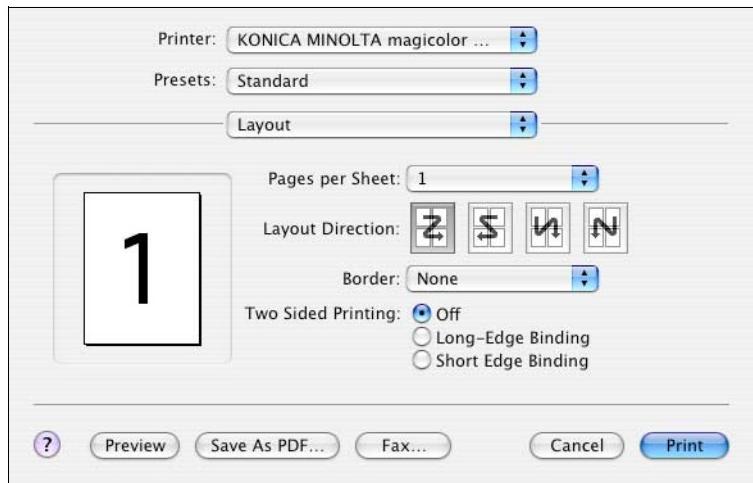
■ Pages

All: Prints all pages in the document.

From, to: Specifies the range of pages to be printed.

Layout

The **Layout** section is used to specify the page layout when printing and the setting for double-sided printing.



- **Pages per Sheet**
Specifies the number of pages to be printed on one sheet of paper. For example, if **2** is selected, two pages are printed on one sheet of paper.
- **Layout Direction**
If you are printing more than one page per sheet, this specifies the direction and order the pages should be arranged on each sheet of paper.
- **Border**
This prints a border around the image for each of the pages printed on one sheet of paper when more than one page is printed on one sheet of paper.
- **Two Sided Printing**
Select the desired setting for double-sided printing when the optional duplexing unit is installed.
 - Off:** Double-sided printing is not performed.
 - Long-Edge Binding:** Double-sided printing is performed with the binding along the long edge of the paper.
 - Short-Edge Binding:** Double-sided printing is performed with the binding along the short edge of the paper.

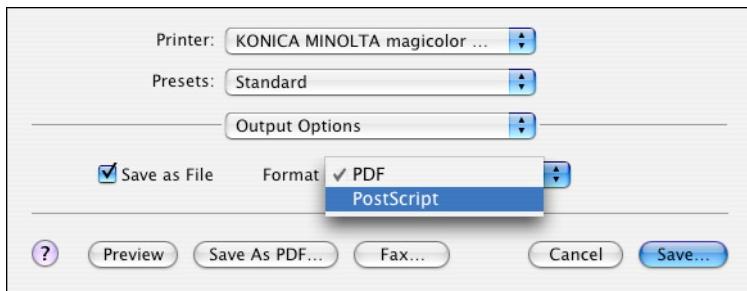


To print on both sides of the paper, **Duplex Option** must be selected under **Installable Options** (p. 15).

The **Long-Edge Biding** check box or **Short-Edge Biding** check box can be selected even when the **Duplex Option** is not installed. However, in this case, the print job will be cancelled.

Output Options

The **Output Options** section is used to specify whether or not to save the print output as a file, and the data format to use when saving the data.



■ Save as File

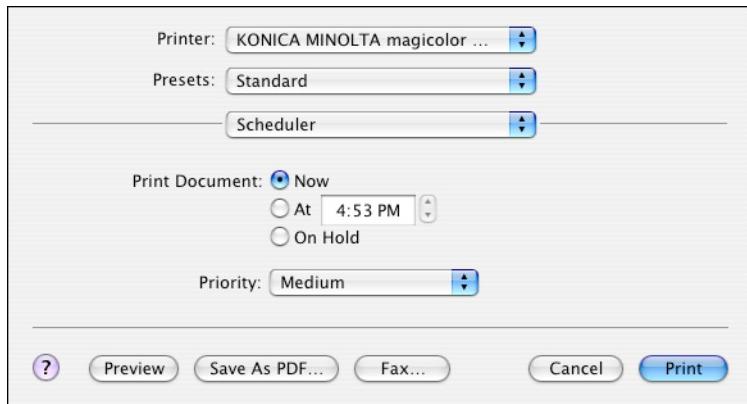
Select this option to save the print output as a file.

■ Format

Select the data format to be used when saving the print output as a file.

Scheduler

The **Scheduler** section is used to specify the timing and priority for printing jobs.



■ Print Document

Now: Select this option to begin printing immediately.

At: Specify the time to begin printing.

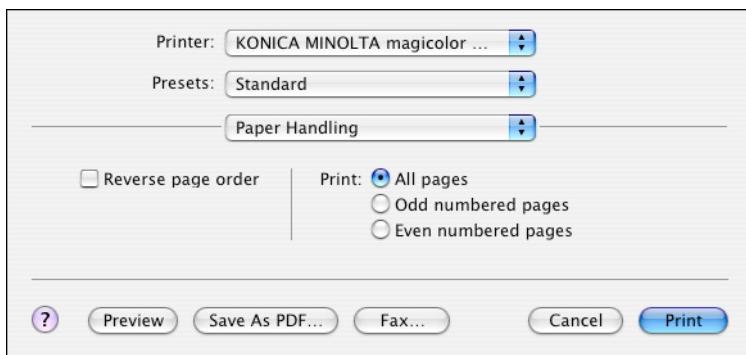
On Hold: Select this option to hold the print job.

■ Priority

Select the priority for printing jobs that are being held.

Paper Handling

The **Paper Handling** section is used to specify the pages that are to be printed and the order in which the pages are printed.



■ Reverse page order

Select this check box to print in the reverse page order.

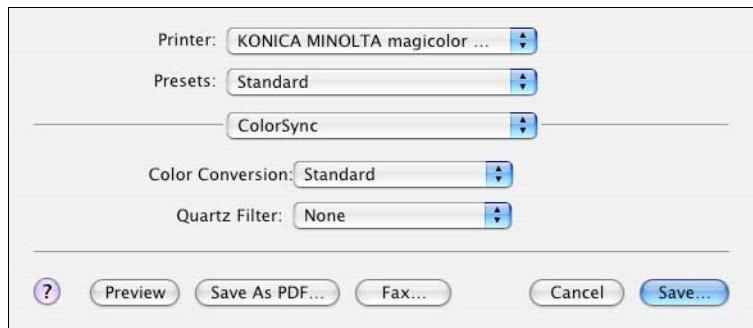
■ Print

All pages: Select this option to print all pages.

Odd numbered pages: Select this option to print only the pages with odd page numbers.

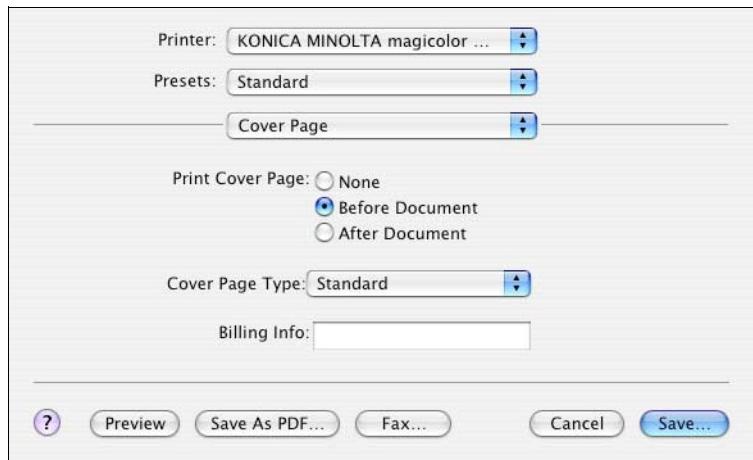
Even numbered pages: Select this option to print only the pages with even page numbers.

ColorSync



- Color Conversion
 - Allows you to select host-based color matching or printer-based color matching.
- Quartz Filter
 - Allows you to select Quartz Filter.

Cover Page



- Print Cover Page
 - Allows you to set cover page before or after document.
- Cover Page Type
 - Allows you to select cover page type.

■ Billing Info

Allows you to set billing information printed on cover page.

Error Handling



■ PostScript Errors

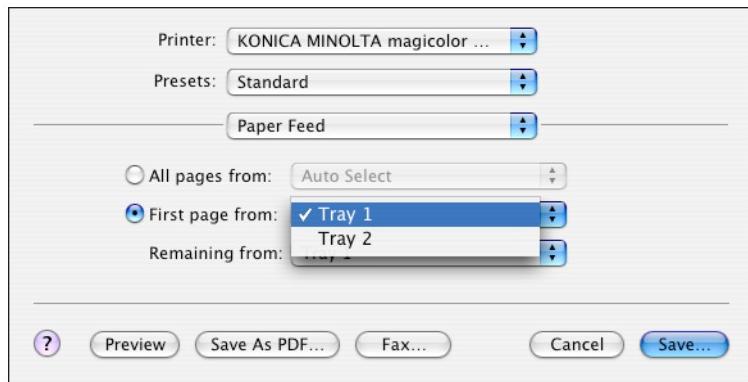
Allows you to select whether or not a report is outputted when a Post-Script error occurs.

■ Tray Switching

This feature is not available with this printer.

Paper Feed

The **Paper Feed** section is used to specify the paper feed setting.

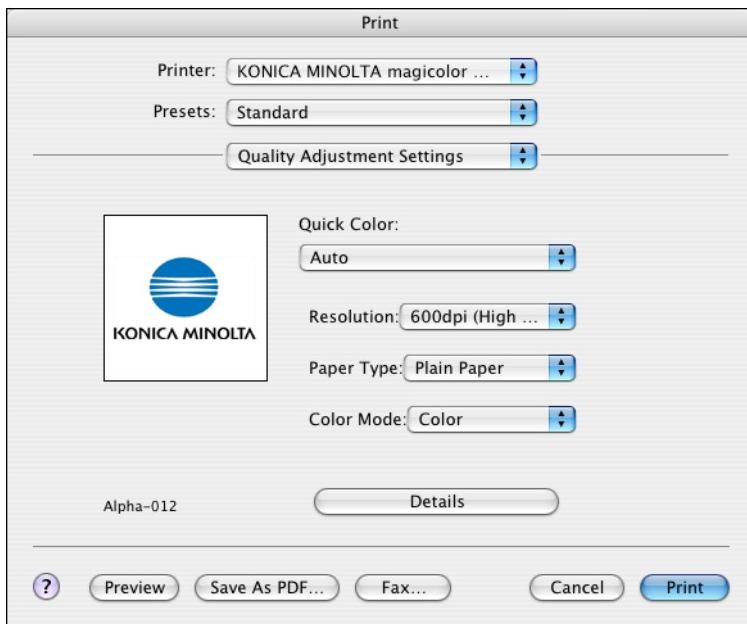


- All pages from
All pages in the document are printed using the paper in the specified paper tray.
- First page from
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- Remaining from
The rest of the document is printed from the specified paper tray when the first page is to be printed on paper from a different tray.



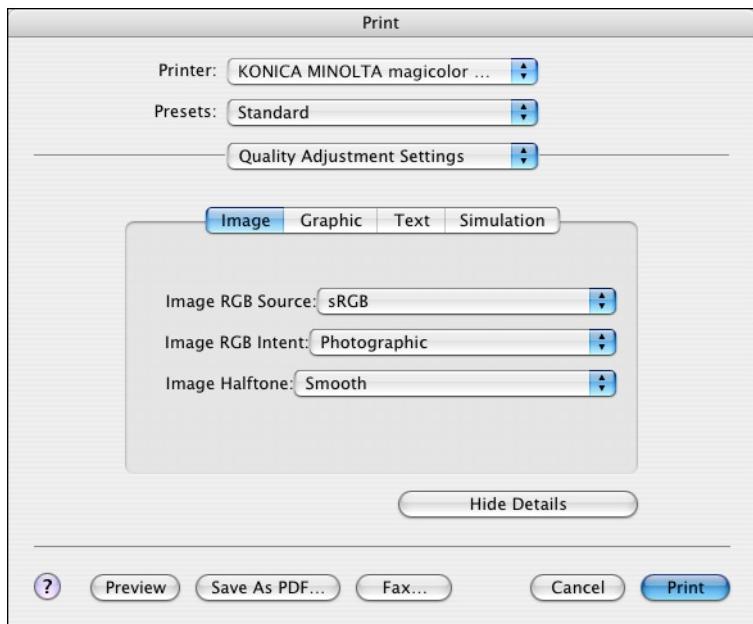
If an optional tray is installed, select **Tray 2** under **Installable Options** (p. 15). If **Tray 2** is not selected, **Tray 2** appear in gray and cannot be selected.

Quality Adjustment Settings



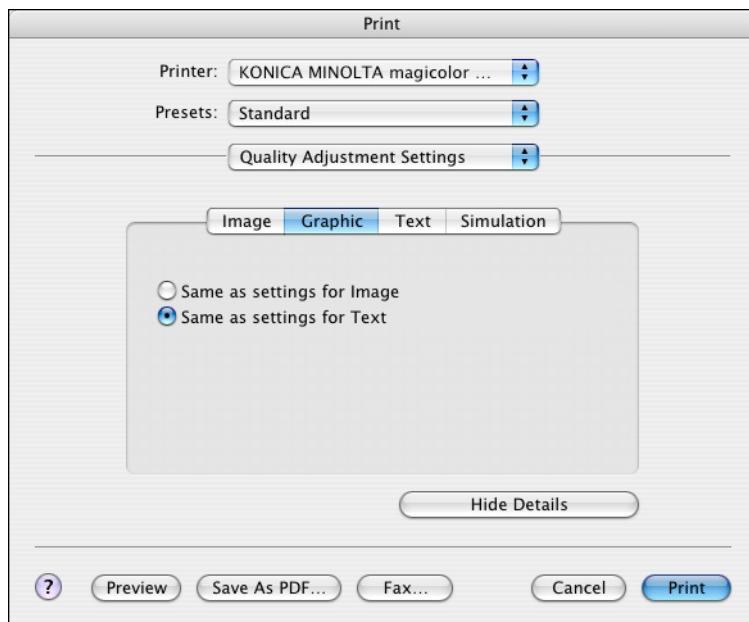
- **Quick Color**
Allows you to select a color preset.
- **Resolution**
Allows you to select the resolution to be used when printing a document.
- **Paper Type**
Allows you to select the type of paper on which the print image will be printed.
- **Color Mode**
Allows you to select the color space.
- **Details**
Click this button to display detailed settings tabs.

Image



- **Image RGB Source**
Allows you to select RGB color profiles for images.
- **Image RGB Intent**
Allows you to select RGB intent for images.
- **Image Halftone**
Allows you to select halftone for images.
- **Hide Details**
Click this button to hide the Detailed Settings tabs and display the Quality Adjustment Settings pane.

Graphics



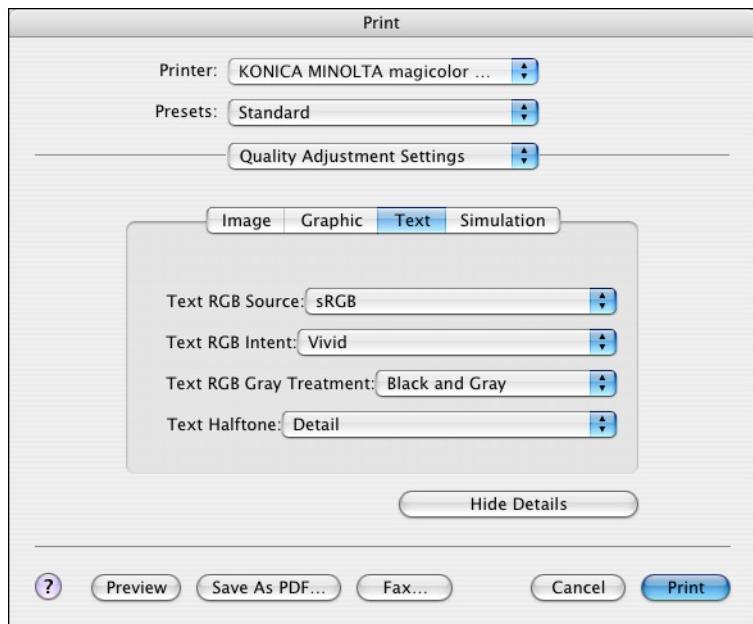
■ Graphics Setting

Allows you to select settings for text.

■ Hide Details

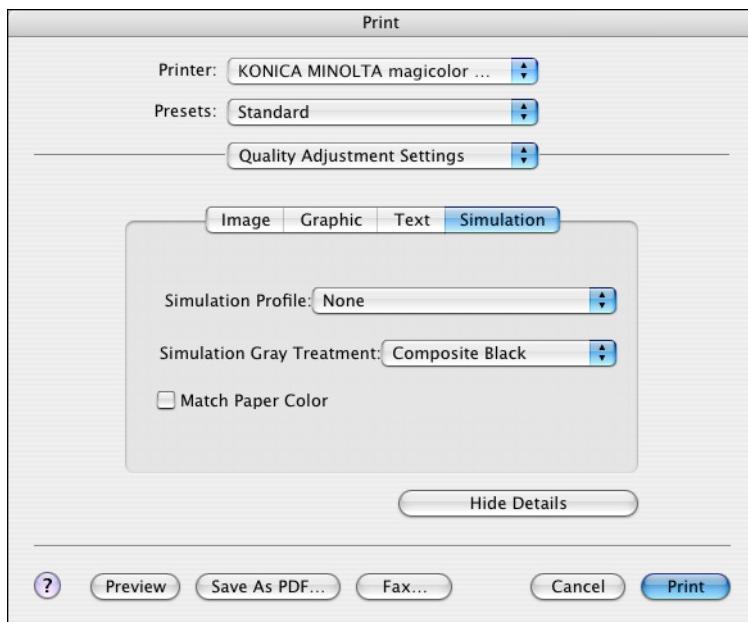
Click this button to hide the Detailed Settings tabs and display the Quality Adjustment Settings pane.

Text



- **Text RGB Profile**
Allows you to select RGB color profiles for text.
- **Text RGB Intent**
Allows you to select RGB intent for text.
- **Text RGB Gray Treatment**
Allows you to select RGB gray treatment for text.
- **Text Halftones**
Allows you to select halftone for text.
- **Hide Details**
Click this button to hide the Detailed Settings tabs and display the Quality Adjustment Settings pane.

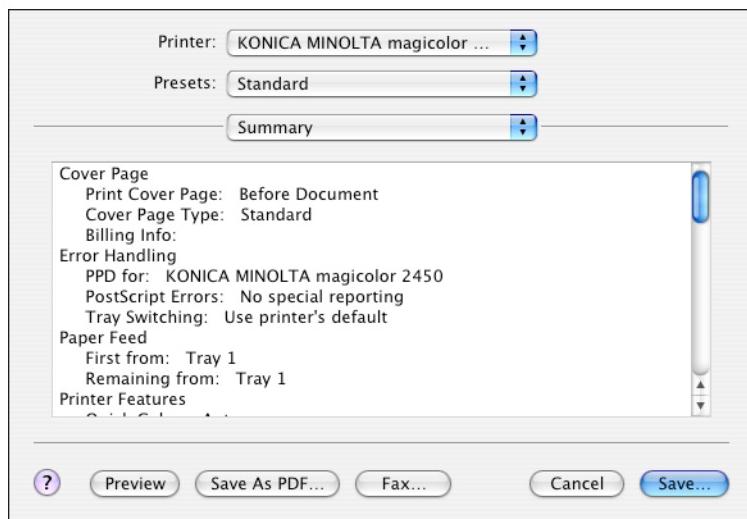
Simulation



- **Simulation Profile**
Allows you to select Source Profile for simulation.
- **Simulation Gray Treatment**
Allows you to select Simulation gray treatment.
- **Match Paper Color**
Allows you to set Match Paper Color.
- **Hide Details**
Click this button to hide the Detailed Settings tabs and display the Quality Adjustment Settings pane.

Summary

The **Summary** is used to check the currently selected print settings.



Troubleshooting

Symptom	Solution
The setting in the saved presets are not applied.	Depending on the functions selected for the printer, some preset settings are not saved.
Media type error appears.	If a media type, such as "Transparency," is specified for Tray 1 or Tray 2, a media type error appears and the printer stops. Be sure to specify a media type supported by Tray 1 and Tray 2.
The printer stops responding.	Depending on the operating system, some paper size and paper type combinations are not permitted. If the job was sent with an incorrect combination of settings, the printer stops responding. Be sure to print with the correct combination of paper size and paper type settings.
Checking the version number of the printer driver.	<p>Click the following files, and then select Get Info from the File menu.</p> <ul style="list-style-type: none">■ For Mac OS X 10.3: /Library/Printers/KONICAMINOLTA/PDEs/ KONICA MINOLTA mc2450 Color.plugin■ For Mac OS X 10.2: /Library/Printers/PPD Plugins/KONICA MINOLTA mc2450 Color.plugin
The dialog box displays incorrectly after you select another manufacturer's printer and then select the magicolor 2450 again.	Close the Print dialog box, and then open it again.
The custom paper size is different from the size that was set.	Depending on the operating system, the custom paper size settings may change slightly (for example, 5.80" may change to 5.79").
When printing 2 pages on a single sheet of paper, the pages are not centered on the paper.	<p>Depending on the operating system, the pages are not centered on the paper when printing two pages on a single sheet of paper with the following paper sizes.</p> <p>Legal, Letter Plus, Foolscap, Government Legal, Statement, Folio</p>

Symptom	Solution
When printing multiple copies of multiple pages on a single sheet of paper with Collated selected, the pages are printed continuously.	When printing multiple copies of multiple pages on a single sheet of paper, Collated cannot be selected.
While printing from Acrobat Reader, the pages are not correctly collated or the print job is cancelled.	If a printing error occurs with Acrobat Reader, print using the Preview application provided by the operating system.

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*Operation on
Mac OS 9*

2

System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer with a PowerPC G3 or later processor (PowerPC G4 or later is recommended)
Connection between computer and printer	USB connection Network connection (10Base T/100Base TX/1000Base T)
Operating system	Mac OS 9.1 or later Mac OS X Classic mode (9.2.2 or later) When using the Classic environment of Mac OS X, Mac OS X 10.2.6 or later is required.
RAM	More than OS recommendation (128 MB or more is recommended)
Available disk space	256 MB or more is recommended (for storing images)

Installing the Printer Driver

- 1 Insert the magicolor 2450 Software Utilities CD-ROM in the CD/DVD drive of your Macintosh.
- 2 Double-click the **mc2450PS Installer** icon.

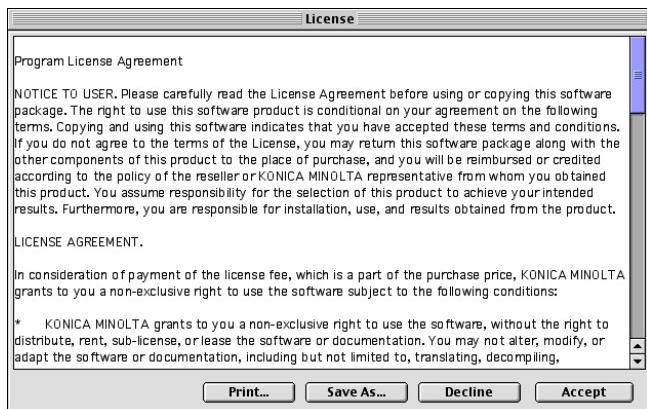


The installer for the printer driver starts up.



When using Mac OS X, start up the Classic environment before installing the printer driver.

- 3 Check the details of the License Agreement, and click **Accept** if you agree to the terms of the license.



- 4** The following screen appears.



- 5** Click **Install Software**.

*The **Install 2450** dialog box appears.*

- 6** Click **Install**.

The installer installs the printer driver.



Installation starts.

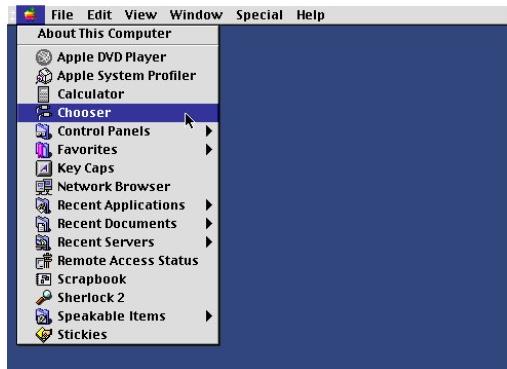
- 7** After the installation has been completed, click **Quit**.



This completes the installation of the magicolor 2450 printer driver.

Selecting the Printer in the Chooser

- 1 Connect the printer and computer.
 - If you are using a USB connection, use the USB cable to connect the printer and your computer.
 - If you are using a network connection, use an 10Base-T/100Base-TX/1000Base-T cable to connect the printer to a Ethernet network.
- 2 Select **Chooser** from the Apple menu.



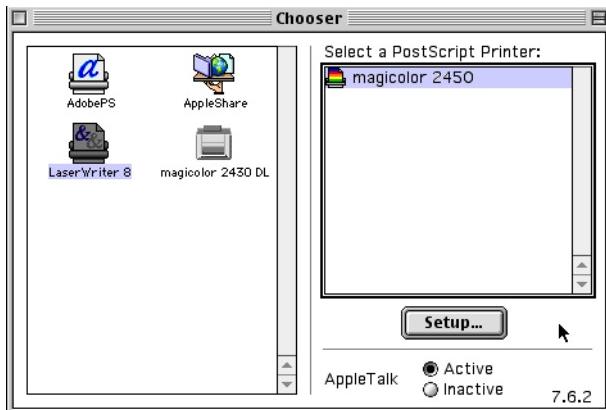
When using Mac OS X, the Apple menu is available with the icon for the Classic environment in the menu bar.



To display the Classic status in the menu bar, select the “Show Classic status in menu bar” check box in the Classic dialog box.

- 3** Select the **LaserWriter 8** icon from the icons on the left side of the Chooser.

*The printer name appears in the **Select a printer** section on the right side of the Chooser.*



- 4** Select the printer.

- 5** Click **Create**.

The printer setup dialog box appears.



- 6** Select the options that are installed, and then click **OK**.

The icon for the magicolor 2450 appears on the desktop.

- With a USB connection, **2450** appears.
- With a network connection, **KONICA MINOLTA magicolor2450** appears.



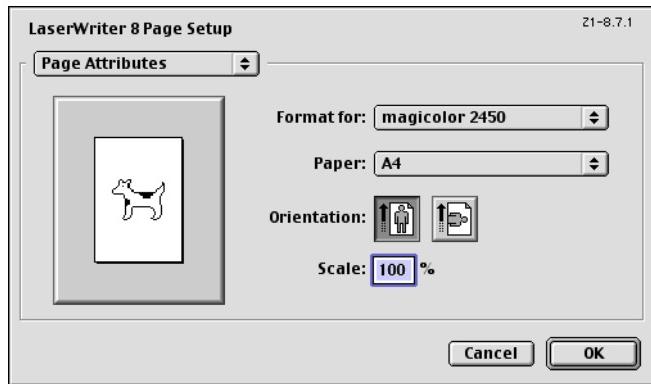
In the Classic environment, no icon appears on the desktop.

Specifying Page Setup Settings

The **Page Setup** dialog box appears when **Page Setup...** is selected from the **File** menu.

Page Attributes Options

The **Page Attributes** section is used to specify the options for the Paper Size, scaling, and page orientation.



- **Paper**
Select the desired Paper Size from the **Paper** pop-up menu.
- **Scale (%)**
If you want to enlarge or reduce the size of the printout, enter the scale ratio (25%-400%) here.
- **Orientation**
Select either a vertical or horizontal page orientation for printouts.

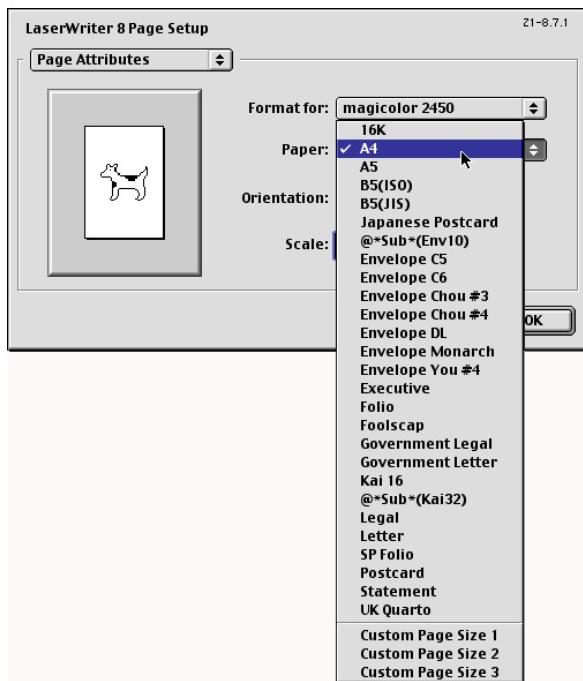


Regardless of which paper size is selected, the printer does not print within 0.157 inch (4 mm) of the edge of the paper.

Specifying a Custom Paper Size

You can also specify a paper size that is not listed in the **Paper Size** pop-up menu.

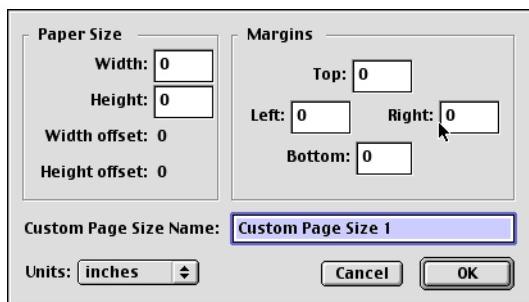
- 1 Select **Custom Paper Sizes...** from the pop-up menu, in the **Page Setup** dialog box.



The **Edit Paper Sizes** dialog box appears.

- 2 Click **New**.

The following dialog box appears.



- 3** Enter a name for the custom paper size in the **Custom Page Size Name** field, enter the dimensions in the **Width** and **Height** fields, enter the margins in **Margins** fields, and then click **OK**.



*The default units used for the dimensions for **Width**, **Height** and **Margins** is inches. To specify the unit of dimensions, select **cm** or **pts** from the **Units** pop-up menu.*

- 4** To add several different custom paper sizes, click **New** and repeat step 3.

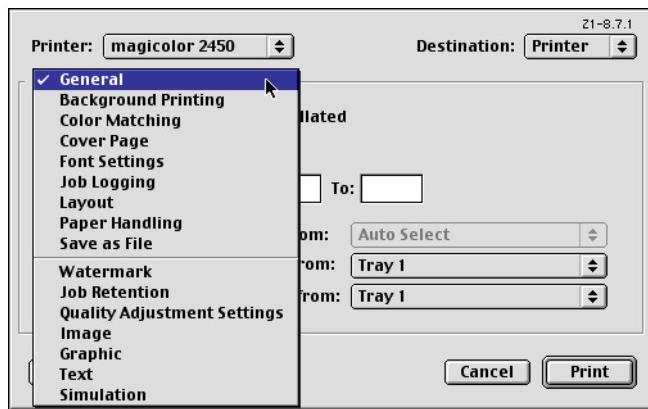


*To delete an existing custom paper size, select the custom paper size from the list on the center of the dialog box, and then click **Delete**.*

- 5** The custom paper size setting is saved, and the name of the custom paper size can now be selected from the **Paper** pop-up menu.
- 6** After you have finished entering the settings, click **Done**.

Specifying Print Settings

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.



You can specify the following options from the **Print** dialog box.

Print Dialog Box Options

Section	Description
General	This section contains options for the number of copies to be printed, the paper source, and the range of pages to be printed.
Background Printing	This section contains options for spooling the print data for background or foreground printing and the document printing time.
Color Matching	This section contains options for Color Matching.
Cover Page	This section contains for specifying cover page settings.
Font Settings	This section contains options for Font Documentation and Font Down loading.
Job Logging	This section contains options for creating a job log.
Layout	This section contains options for the number of pages per sheet of paper and other duplex printing.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
Save as File	This section contains options for saving the print image as a file and for the format of saved data.
Watermark	This section contains options for watermark settings.
Job Retention	This section contains options for Job Retention.
Quality Adjustment Settings	This section contains options for print quality adjustment.
Image	This section contains advanced color options for Images.
Graphic	This section contains advanced color options for Graphics.
Text	This section contains advanced color options for Text.
Simulation	This section contains options for Simulation Profile.



No warning message will be displayed if options that cannot be used together are selected.

Common buttons

- Preview

Click this button to view a preview image of the printout, to check that the print options are set correctly.

- Cancel

Click this button to close the Print dialog box without applying any of the settings.

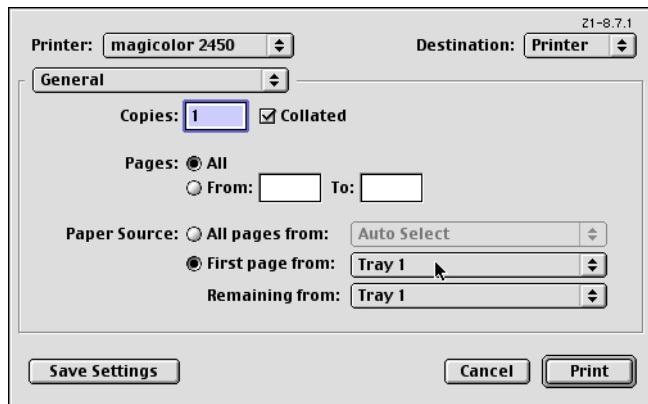
- OK

Click this button to print using the selected print options.

- Save Settings

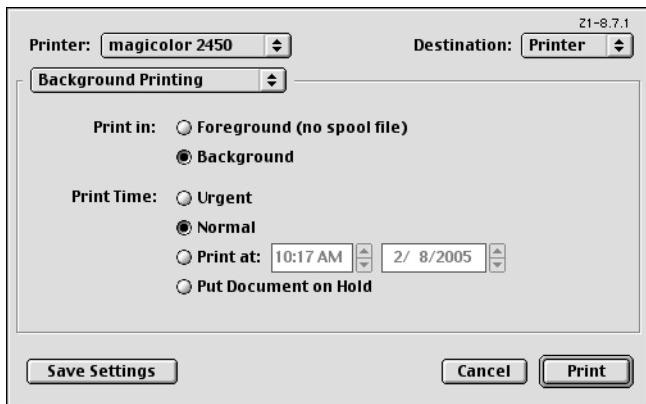
Click this button to save configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.

General Options



- Copies
Allows you to specify how many copies of the print job you want printed.
- Collated
If this item is selected, your print job is collated (one complete copy of the document is printed before the next copy is printed). Left unselected, the printing is uncollated.
- Pages
Select **All** to print all pages in the open document. To print a specific range of pages, select **From**, and then enter the beginning page number in the **From** text box and the ending page number in the **To** text box.
- Paper Source
Allows you to select the tray that the printer uses for the print job and to choose a different tray for the first page of the document, if you have more than one tray installed.

Background Printing



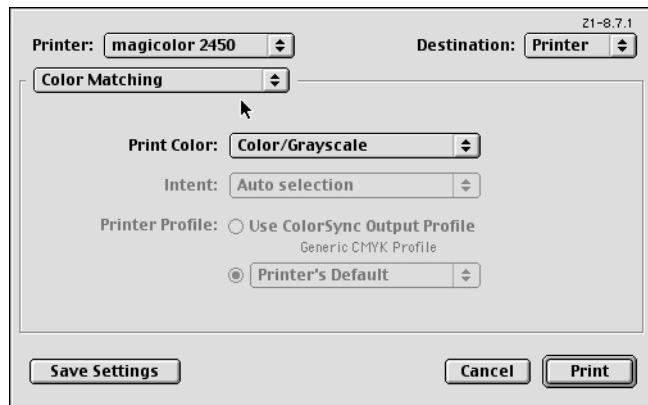
■ Print In

Allows you to choose between printing in foreground and printing in background. Printing in background creates a spool file that is temporarily saved on your computer until the print job is ready to be processed. This allows you to continue working in your applications while the print job is processing. If you don't have enough free file space on your computer to process a spool file, select Foreground printing.

■ Print Time

Allows you to assign a priority status to the print job and specify a particular time that the print job should be printed.

Color Matching



- Print Color

Allows you to choose from the color configurations available on your computer.

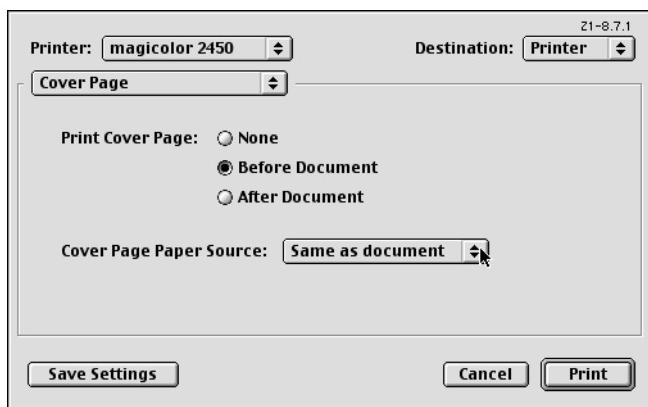
- Intent

Allows you to specify the color matching configuration or allow for automatic configuration. This item is disabled (grayed out) unless **ColorSync Color Matching** is the selected **Print Color** setting.

- Printer Profile

Allows you to select from the printer profiles that are available.

Cover Page



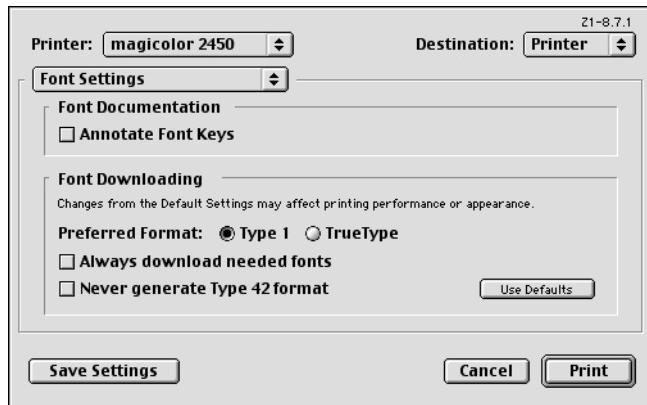
■ Print Cover Page

Lets you choose whether to print a cover page, and specify where the placement of the cover page in relation to the remaining pages of the print job.

■ Cover Page Paper Source

Allows you to select the paper tray containing the cover paper source page media. The Cover Page contains information about the print job such as: user name, application, document name, date, time, printer, and number of pages. This option is disabled (grayed out) if **Print Cover Page** is set to **None**.

Font Settings



■ Font Documentation

- Annotate Font Keys:

Allows you to determine if the font keys are annotated.

■ Font Downloading

- Preferred Format:

Allows you to select the preferred font format.

- Always download needed fonts:

If selected, fonts should always be downloaded to the printer. Printer fonts are not used.

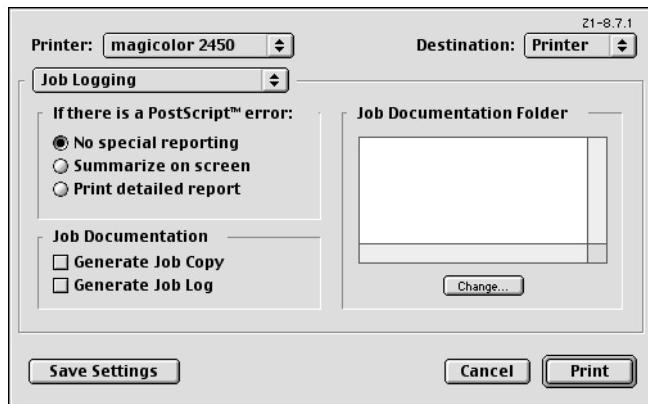
- Never generate Type 42 format:

If selected, Type 42 fonts are not generated.

- Use Defaults:

Restores factory default settings for font downloading.

Job Logging



- If there is a PostScript error

Allows you to select whether or not a report is outputted when a Post-Script error occurs.

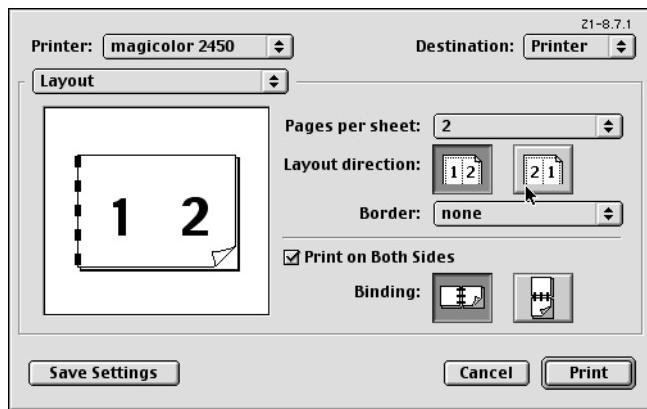
- Job Documentation

Allows you to specify generating a job copy in the folder specified as the Job Documentation Folder, and generating a job font log following the completion of the print job.

- Job Documentation Folder

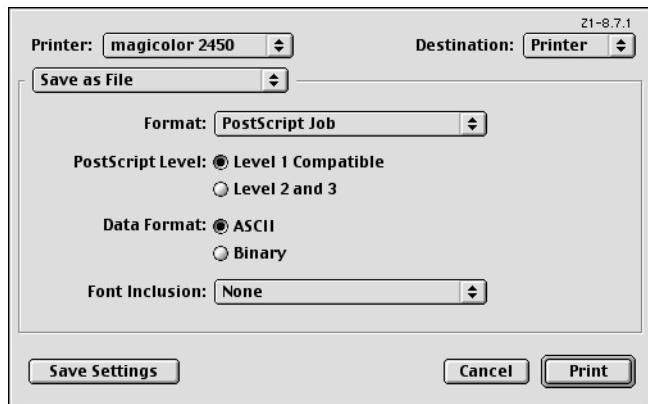
Allows you to select the location of the Job Documentation Folder. The folder selected holds a copy of the print jobs or job information of print jobs that are configured for job documentation. Use the **Change** button to browse to and select a different folder.

Layout



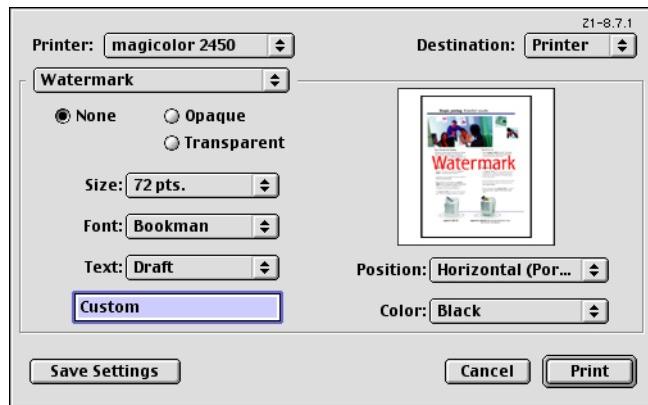
- **Pages Per sheet**
Allows you to set the number of logical pages per physical sheet.
- **Layout direction**
Lets you identify either left-right or right-left logical page direction on the physical sheet.
- **Border**
Allows you to select a border to surround each logical page.
- **Print on Both Sides**
Allows you to configure the print job for duplex printing.
This setting is disabled (grayed out) unless an optional duplex unit is installed.
- **Binding**
Determines the orientation of the logical pages on the physical sheet so the printed media is oriented for binding on the short edge or long edge of the media.

Save as File



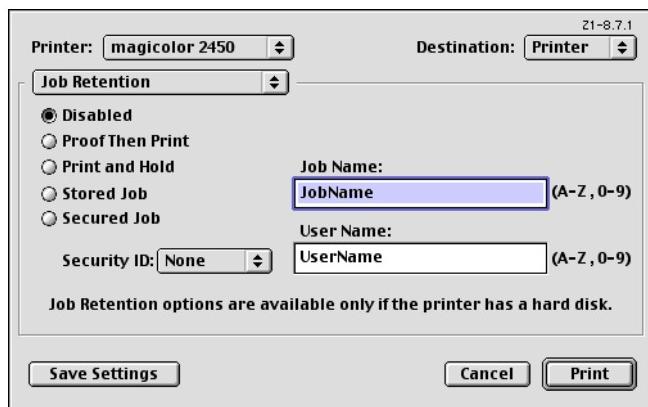
- Format
Select the file format of the output file.
- PostScript Level
Allows you to select from available PostScript levels.
- Data Format
Sends the print job data to the file in either ASCII or Binary format.
- Font Inclusion
Allows you to choose the fonts that are included with the Inclusion print job as it is saved to a file.

Watermark



- None
 - Allows you to disable the watermark function.
- Opaque
 - The watermark text will be solid. The page content beneath the watermark will not be visible.
- Transparent
 - The watermark text will be semi-transparent. The page content beneath the watermark will be visible.
- Size
 - Allows you to select watermark font size.
- Font
 - Allows you to select watermark font type.
- Text
 - Allows you to select watermark text.
- Position
 - Allows you to select watermark position.
- Color
 - Allows you to select watermark font color.

Job Retention



■ Job Retention

Select type of job.

- Disabled: The job is printed normally.
- Proof then Print: Printer prints 1 copy without the panel operation. You can then print the rest of the copies through the panel. The job is deleted after the whole copies are printed.
- Print and Hold: Printer prints all of multicopy print job, and then holds the print job in the printer's hard disk for printing additional copies. The job isn't deleted until it is intentionally deleted or the held job timeout occurs.
- Stored Job: Printer dose not print the job without the panel operation. You can print desired copies through the panel. You can print additional copies through the panel later. If you stored the job with security ID, you have to input it every time print job. Printer keeps the job until it is deleted intentionally.
- Secured Job: Printer dose not print the job without the panel operation. Printer prints the job when you input Security ID correctly. The job is deleted after all copies are printed.



For details on each printing procedure, refer to the *magicolor 2450 User's Guide*.

■ Job Name

Allows you to set Job Name.

■ User Name

Allows you to set User Name.

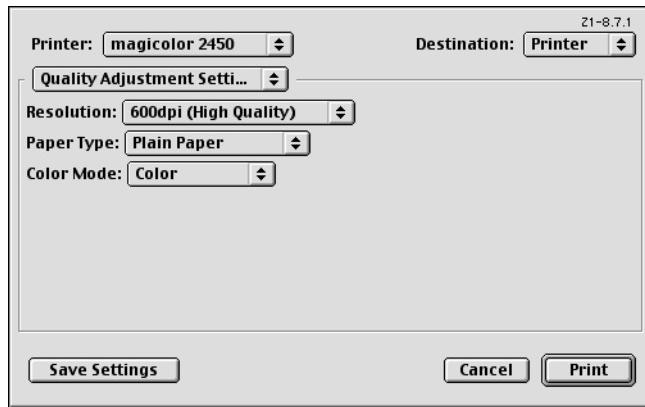
- Security ID
Select a Security ID to a Job.



To use Job Retention feature, the optional Hard Disk must be installed on the printer.

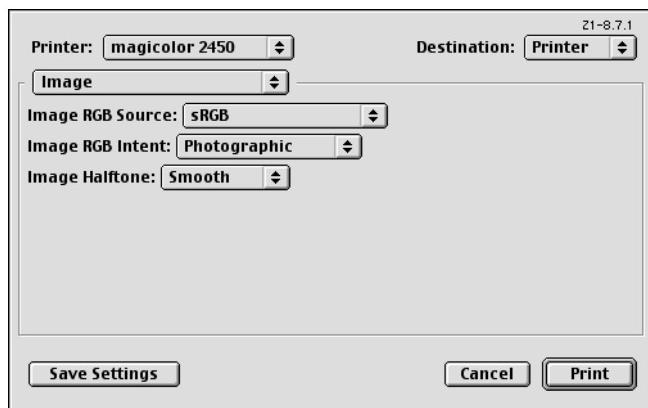
In addition, the printer must be set up with the Chooser to use the Hard Disk. For details on selecting the Hard Disk with the Chooser, refer to "Selecting the Printer in the Chooser" on page 45.

Quality Adjustment Settings



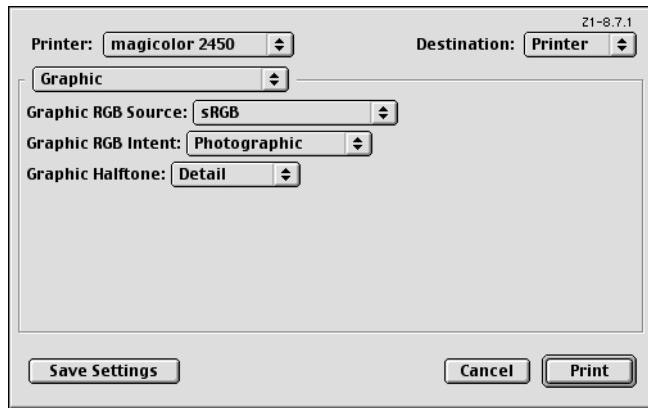
- Resolution
Allows you to select the resolution of the image.
- Paper Type
Allows you to select Paper Type.
- Color Mode
Allows you to select the color model that the printer uses for color printing.

Image



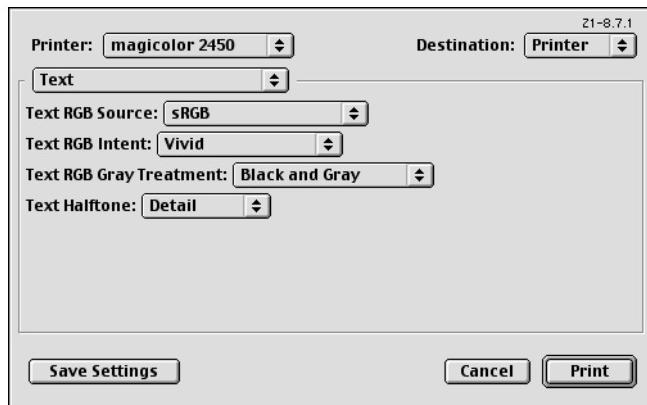
- **Image RGB Source**
Allows you to select RGB color profiles for images.
- **Image RGB Intent**
Allows you to select RGB intent for images.
- **Image Halftone**
Allows you to select halftone for images.

Graphic



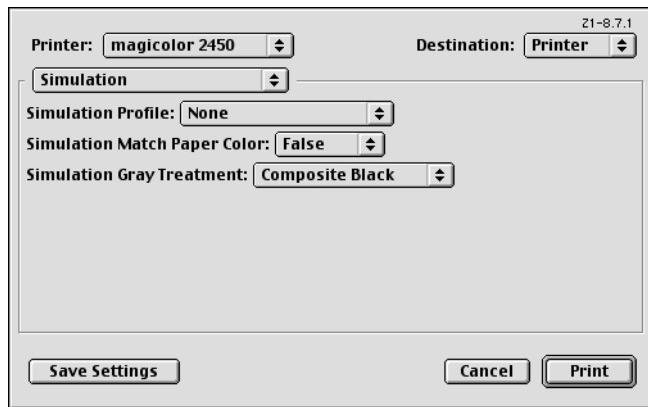
- Graphic RGB Source
Allows you to select RGB color profiles for graphics.
- Graphic RGB Intent
Allows you to select RGB intent for graphics.
- Graphic Halftone
Allows you to select halftone for graphics.

Text



- Text RGB Source
Allows you to select RGB color profiles for text.
- Text RGB Intent
Allows you to select RGB intent for text.
- Text RGB Gray Treatment
Allows you to select RGB gray treatment for text.
- Text Halftone
Allows you to select halftone for text.

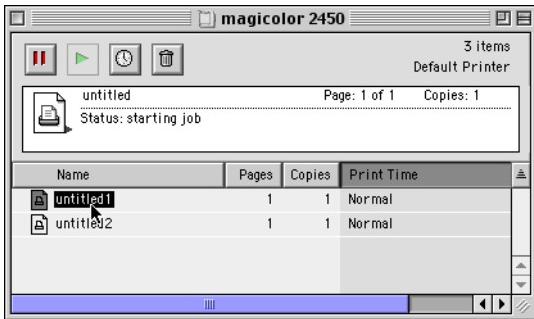
Simulation



- Simulation Profiles
 - Allows you to select RGB color profiles for simulation.
- Simulation Match Paper Color
 - Allows you to set Match Paper Color.
- Simulation Gray Treatment
 - Allows you to select Simulation gray treatment.

Checking Print Jobs

To check the progress of print jobs, double-click the **magicolor 2450** desktop printer icon.



In the Classic environment, Print Monitor automatically starts up, and the icon appears in the Dock. Click the Print Monitor icon to check the status of print jobs.

Troubleshooting

Symptom	Action
When printing on both sides of paper with a custom size, an error occurs.	Both sides of paper with a custom size cannot be printed on. In addition, there are limitations on the media types that can be selected. Refer to the User's Guide (CD-ROM) provided with the printer.
When printing from a Web browser, each frame is printed on a separate page.	Depending on the Web browser being used, each frame will be printed on a separate page. Try printing from a different Web browser. You can confirm it using the "preview" function of the print dialog.
Double-sided printing cannot be selected.	If the printer is connected by USB, select the installed options with the Chooser. For details on selecting options with the Chooser, refer to "Selecting the Printer in the Chooser" on page 45. In addition, there are limitations on the media types that can be selected. Refer to the User's Guide (CD-ROM) provided with the printer.
Tray 2 cannot be selected.	
The error was cancelled, but the error message appeared again.	Occasionally, the error message appears a few times, even though the error was cancelled.

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3

Operation on Linux

System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

CPU	Intel IA-32
Operating systems	Red Hat Linux 9.0 (CUPS 1.1.15 or later), SuSE Linux 8.2 (CUPS 1.1.15 or later)
Applications	OpenOffice 1.0.1 or later
Connecting the computer and printer	USB connection, Parallel connection, Network connection (10Base-T/10Base-TX/1000Base-T)
RAM	More than OS recommendation (128 MB or more is recommended)
Network	LPR (queue: lp, LP, default, DEFAULT) AppSocket/HP JetDirect
Available hard disk space	256 MB or more



This printer driver can also be used with Linux versions other than those listed above if CUPS 1.1.15 or later is installed.



As an example, the descriptions of the operations for Red Hat 9.0 are provided in this chapter.

Installing PPD File From the Command Line



Before proceeding with the installation, be sure to exit all running applications.



Root privileges are required in order to install ppd file.

- 1 Copy the ppd file from the CD-ROM to the “/usr/share/cups/model/KONICA_MINOLTA” on the computer.



A ppd file for each language is available in the corresponding “drivers/linux/ppd/<language>” folder on the Software Utilities CD-ROM. Use the appropriate ppd file for the language.



When printing from OpenOffice, use km2450-open.ppd. Otherwise, use km2450np.ppd.

For details on the procedure for printing from OpenOffice, refer to “Example Using OpenOffice” on page 82.

- 2 From the Main Menu, select **System Tools**, then **Terminal**.

- 3 Enter the command “/etc/init.d/cups restart”.

```
[root@localhost root]# cp /mnt/cdrom/drivers/linux/ppds/english/km2450np.ppd /usr/share/cups/model/KONICA_MINOLTA/
[root@localhost root]# /etc/init.d/cups restart
Stopping cups: [ OK ]
Starting cups: [ OK ]
[root@localhost root]#
```

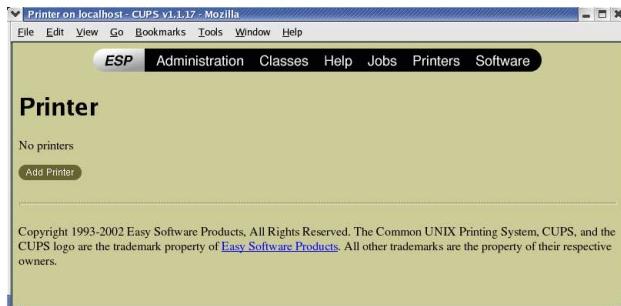
- 4 Quit Terminal.

Adding the Printer

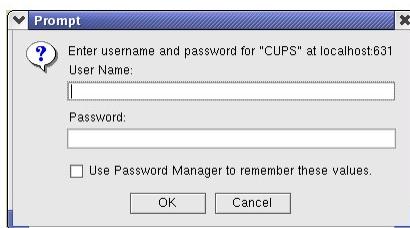


After copying the PPD file, be sure to restart CUPS.

- 1 Start up the Web browser.
- 2 Enter the URL “<http://localhost:631>”, and then click **Manage Printers**.
The CUPS Administration Web page appears.



- 3 Click **Add Printer**.
A pop-up window appears.



- 4 Enter the user name and password for using root privileges, and then click **OK**.
- 5 Enter the printer name, location, and description, and then click **Continue**.



- 6 Select a Device Port from the **Device** list, then click **continue**.

TCP/IP: AppSocket/HP JetDirect

USB: USB Printer #1 (KONICA MINOLTA magicolor 2450)

Parallel: Parallel Port #1



- 7** For a USB or parallel connection, skip to step 8. Enter the device URI in the following form: `socket://<Printer IP or Printer Hostname>[:port]`.



Example:

Using Printer IP - socket://192.168.1.190:9100

Using printer Hostname - socket://Hostname:9100

Hostname may be substituted by IP Address, and Port is optional.

Admin

Device URI for mc2450

Device URI: `socket://192.168.1.193:9100`

Examples:

```
file:/path/to/filename.prm  
http://hostname:631/ipp/  
http://hostname:631/ipp/port1  
ipp://hostname/ipp/  
ipp://hostname/ipp/port1  
lpd://hostname/queue  
socket://hostname:  
socket://hostname:9100
```

Continue

- 8** Click Continue.

- 9** Select **KONICA MINOLTA**, click **Continue**.

Admin

Model/Driver for mc2450

Raw
DYMO
EPSON
HP
Make: **KONICA MINOLTA**
OKIDATA
Postscript

Continue

- 10** Select **KONICA MINOLTA mc2450 PPD (en)**, then click **Continue**.

Admin

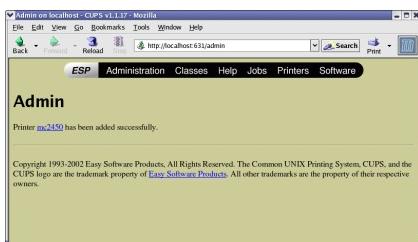
Model/Driver for mc2450

KONICA MINOLTA mc2450 PPD (en)

Model:

Continue

The following message appears.



Specifying Printer Driver Settings

Displaying the Settings Page

- 1 Start up the Web browser.
- 2 Enter the URL “<http://localhost:631>”, and then click **Manage Printers**.
Printer on localhost.local-domain window appears.



- 3 Click **Configure Printer**.
The printer driver settings page appears.



Printer Driver Settings

Basic Features

Parameters	Settings
Auto Tray Switching	Specifies tray switching behavior as Enabled , Disabled . ■ The default setting is Disabled .
Collate	If Yes is selected, all pages in the documents are printed as sets of printouts. ■ The default setting is Disabled .
Color Mode	Specifies color mode as Color , Grayscale . ■ The default setting is Color .
Duplex Options	Specifies the duplex print binding position as Long Side , Simplex , or Short Side . ■ The default setting is Simplex .
Paper Size	Specifies the paper size. An irregular paper size cannot be selected.
Paper Source	Specifies the paper source as Tray 1 , Tray 2 , or Auto . ■ The default setting is Tray 1 .
Paper Type	Specifies the paper type as Printer Default , Plain Paper , Thick , Transparency , Letter-head , Label , Postcard , Envelope , or Glossy . ■ The default setting is Printer Default .
Resolution	Specifies the resolution of the image as 600dpi (High Quality) , 600dpi (Standard) . ■ The default setting is 600dpi (High Quality) .

Details

Parameters	Settings
Graphic Halftone	<p>Specifies the halftone for graphic as Detail or Smooth.</p> <p>■ The default setting is Detail.</p>
Graphic RGB Intent	<p>Specifies RGB intent for graphic as Photographic, Vivid, Relative Color, or Absolute Color.</p> <p>■ The default setting is Vivid.</p>
Graphic RGB Source	<p>Specifies RGB source for graphic as None, sRGB, Adobe RGB (1998), Apple RGB, ColorMatch RGB, or Blue Adjust RGB.</p> <p>■ The default setting is sRGB.</p>
Image Halftone	<p>Specifies the halftone for image as Detail or Smooth.</p> <p>■ The default setting is Smooth.</p>
Image RGB Intent	<p>Specifies RGB intent for image as Photographic, Vivid, Relative Color, or Absolute Color.</p> <p>■ The default setting is Photographic.</p>
Image RGB Source	<p>Specifies RGB source for image as None, sRGB, Adobe RGB (1998), Apple RGB, ColorMatch RGB, or Blue Adjust RGB.</p> <p>■ The default setting is sRGB.</p>
Simulation Gray Treatment	<p>Specifies simulation gray treatment as Composite Black, Black and Gray, or Black Only.</p> <p>■ The default setting is Composite Black.</p>
Simulation Match Paper Color	<p>Specifies Match Paper Color as On or Off.</p> <p>■ The default setting is Off.</p>
Simulation Profile	<p>Specifies the simulation profile as None, SWOP, EuroScale, Commercial Press, DIC, or TOYO.</p> <p>■ The default setting is None.</p>

Parameters	Settings
Text Halftone	Specifies the halftone for text as Detail or Smooth . ■ The default setting is Detail .
Text RGB Gray Treatment	Specifies the RGB Gray Treatment as Composite Black , Black and Gray , or Black Only . ■ The default setting is Black and Gray .
Text RGB Intent	Specifies RGB intent for text as Photographic , Vivid , Relative Color , or Absolute Color . The default setting is Vivid .
Text RGB Source	Specifies RGB source for text as None , sRGB , Adobe RGB (1998) , Apple RGB , ColorMatch RGB , or Blue Adjust RGB . ■ The default setting is sRGB .

Installed Options

Parameters	Settings
Disk	Select Installed if the optional Hard Disk for the printer has been installed. ■ The default setting is Not Installed .
Duplexer	Select Installed if the optional duplexing unit for the printer has been installed. ■ The default setting is Not Installed .
Input Bin	Select Installed if the optional trays for the printer have been installed. ■ The default setting is Not Installed .

Banners

Parameters	Settings
Starting Banner	Specifies the starting banner as none , classified , confidential , secret , standard , topsecret , or unclassified . ■ The default setting is None .
Ending Banner	Specifies the ending banner as none , classified , confidential , secret , standard , topsecret , or unclassified . ■ The default setting is None .

PS Binary Protocol

Parameters	Settings
PS Binary Protocol	Specifies the binary communications protocol (BCP) as None or BCP . ■ The default setting is None .

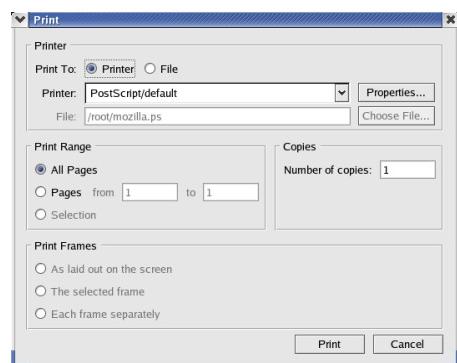
Printing a Document

The contents and available options that appear in the print dialog box may vary depending on the application being used.

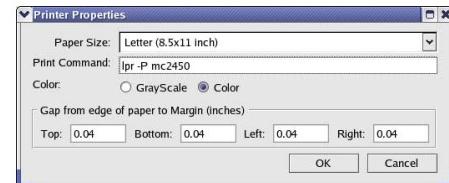
Example Using LPR Command

With applications other than OpenOffice, the following print dialog box appears.

- 1 Click **Properties** in the Print dialog box.



- 2 The Print Properties dialog box appears.



- 3 Enter the command "lpr -P" followed by the name of the printer, and then click **OK**. The Print dialog box appears again.
- 4 Click **Print** to print the document.

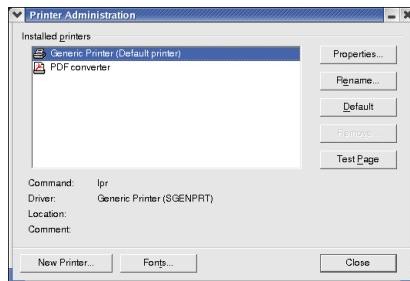
Example Using OpenOffice

 The procedure for printing on Red Hat 9 with OpenOffice 1.0.2 is described below. The following procedure or some steps may be different depending on the version of the operating system being used.

 First, use km2450-open.ppd to add the printer to the system. For details on adding a printer to the system, refer to "Adding the Printer" on page 74.

- 1 From the main menu, select **Office**, then **OpenOffice.org Printer Setup**.

The printer Administration dialog box appears.



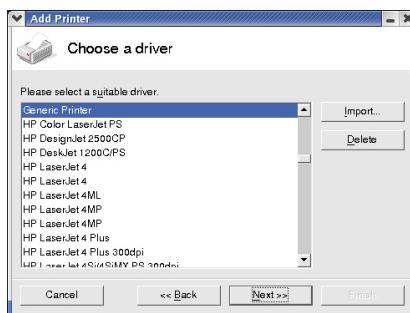
- 2 Click **New Printer**.

The Add Printer dialog box appears.



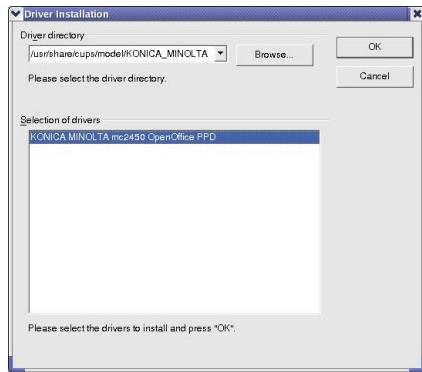
- 3 Check that **Add a printer** is selected, and then click **Next**.

The printer selection list appears.



4 Click Import.

Driver Installation dialog box appears.



5 Enter “/usr/share/cups/model/KONICA_MINOLTA” in the driver directory.

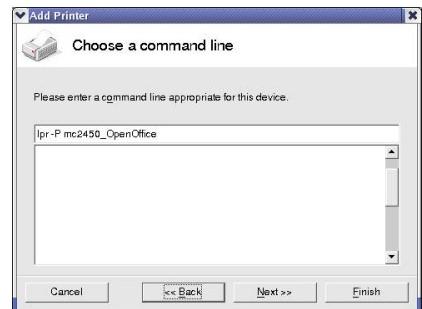
6 In the **Selection of drivers** list, select **KONICA MINOLTA mc2450 OpenOffice PPD**.

7 Click **OK**.

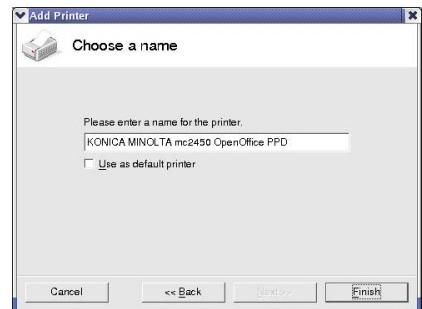
The Add Printer dialog box appears again.

8 Select **KONICA MINOLTA mc2450 OpenOffice PPD**, and then click **Next**.

9 In the command line, enter “lpr -P” followed by the name of the printer added first, and then click **Next**.



10 Change the printer name.

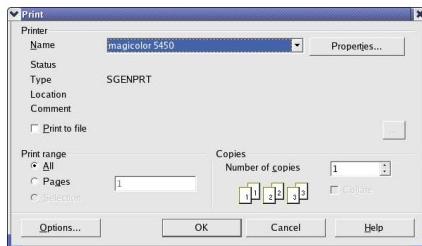


- 11 Click **Finish**. The Printer Administration dialog box appears again.
- 12 Click **Close**.
- 13 From the main menu, select **Office**, then **OpenOffice.org Writer**.
- 14 Click **Print** in the **File** menu.

The Print dialog box appears.



- 15 Select the name of the printer specified in the **OpenOffice** printer settings.

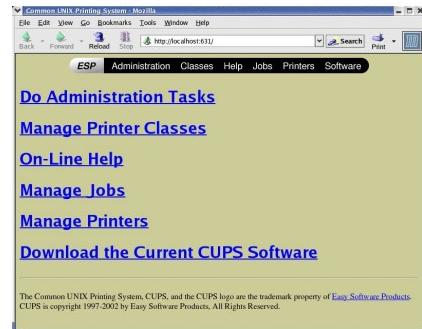


- 16 Click **OK**.

Checking Print Jobs

You can check the status of print jobs from a Web browser.

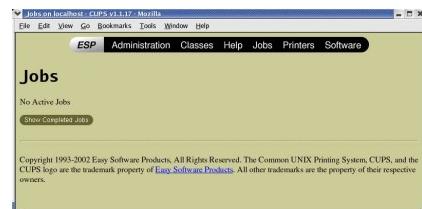
- 1 Start up the Web browser.
- 2 Enter the URL “<http://localhost:631>”.
The CUPS Administration Web page appears.



- 3 Click **Manage Jobs**.
A list of the currently active print jobs appear.



*To check the status of completed print jobs, click **Show Complete Jobs**.*



Troubleshooting

Symptom	Action
The printer stops because of a paper size error or a paper type error.	The job may have been sent with a prohibited combination of settings (for example, for the paper size and media type). Printing is not possible with postcards or overhead projector transparencies if Plain Paper is selected.
Printing does not continue with a custom paper size.	Printing with custom paper sizes is not possible directly from the printer driver. This can only be performed from the command line. Specify the following command to print data. lpr -P [printer_name] -o media=Custom. [WIDTHxLENGTH] [file_name] 1. Format of Custom. [WIDTHxLENGTH]: Custom.150x200 mm, Custom.8x11 in, Custom.15x20 cm, or Custom.612x782 (postscript points) 2. The specified file must be a PS, PDF or JPEG file.
Printing cannot be completed correctly from OpenOffice or any other Office application (such as, Kword).	Applications running under Linux have their own print settings. Some of these functions may not be supported by this printer. Observe the following for best printing results. ■ Settings made within the application: Paper size and orientation ■ Settings made with the printer driver (kprinter): Settings other than those specified above (for example, paper type, tray, and resolution)
When printing from Acrobat Reader, part of the image is printed in solid black or the job is interrupted.	There is a compatibility problem between Ghostscript and Acrobat Reader. Try using a different PDF application.
Watermarks cannot be printed from Kword.	This is a bug with Kword. Use Overlay instead.

4

Printer Management Utilities

Installing Printer Management Utilities on Windows



You must have administrator privileges in order to install the Printer Management Utilities.



Before proceeding with the installation, be sure to exit all running applications.

The following procedure describes how to install the Printer Management Utilities.

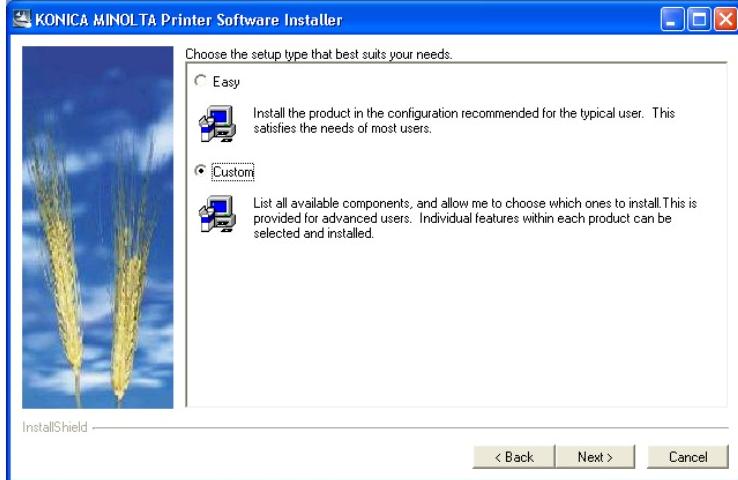
- Crown Print Monitor+
 - Management Information Base
 - Status Monitor
 - Download Manager Utility
 - PageScope Network Setup
- 1 Insert “magicolor 2450 Software Utilities” CD-ROM in your CD/DVD-ROM drive.
 - 2 Select **Next** from the Introduction dialog.



- 3** From the Main Menu dialog, select **Additional Software**.

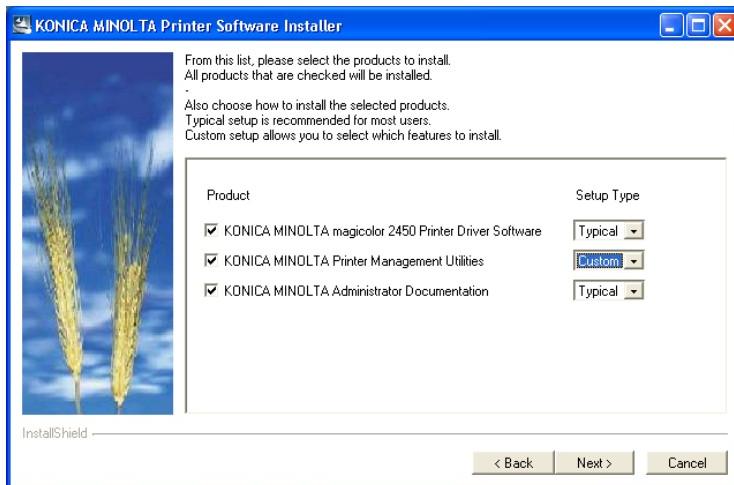


- 4** After reviewing and accepting the license agreement, choose the installation directory (or use the default directory setting).
- 5** Select **Custom**, then click **Next**.



*Click **Easy** to install all printer management utilities.*

- 6** Select **KONICA MINOLTA Printer Management Utilities** from the **Product** list, and select **Custom** from **Setup Type** pull down list, then click **Next**.



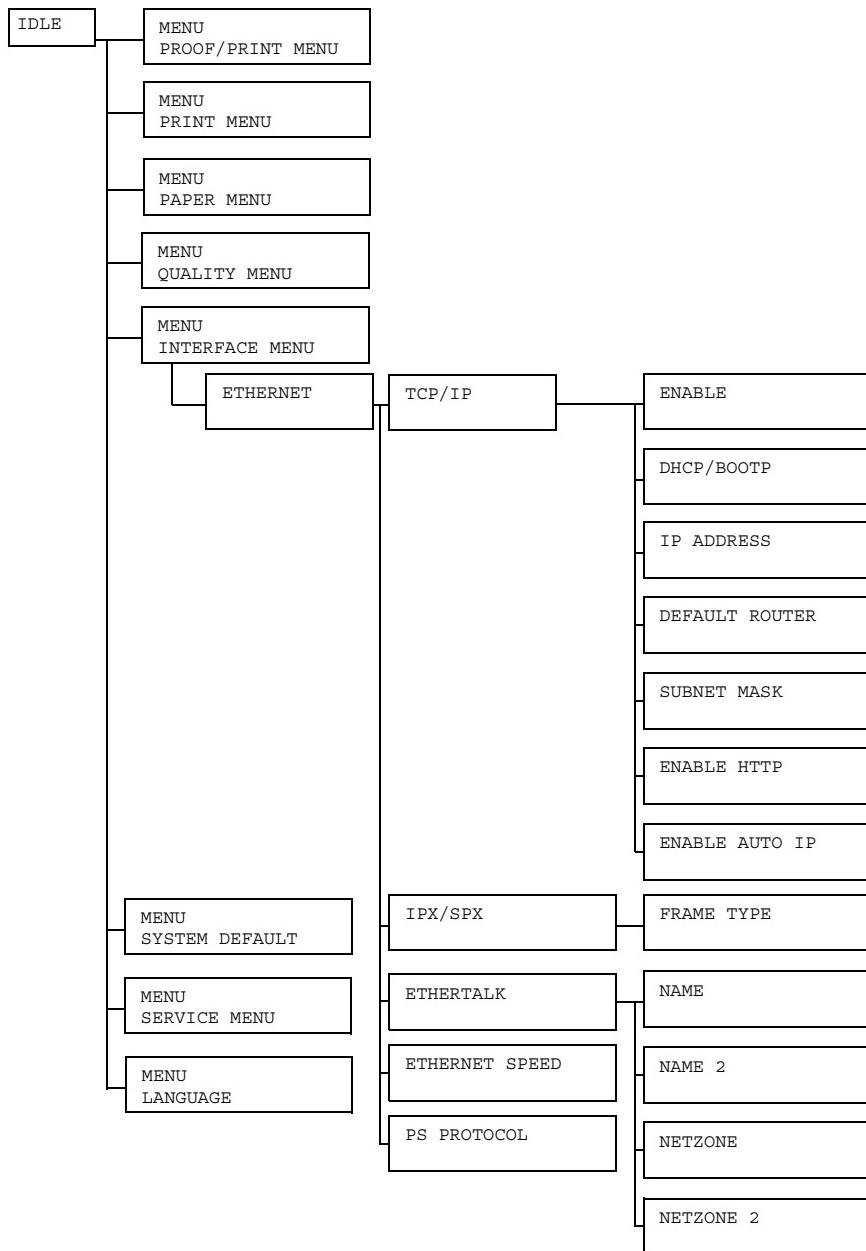
- 7** From the **Product Installation** list, select the check boxes for the software to be installed, and then click **Next**.
- 8** Follow the onscreen instructions to complete the installation.
- 9** When the Information message box appears, select **Finish**.
- 10** After the installation is complete, remove the Software Utilities CD-ROM from your CD-ROM drive and store it in a safe place.

5

Understanding the Ethernet Configuration Menus

Ethernet Menu

Location within the Configuration Menu



Accessing the Ethernet Menu

Use the following series of keystrokes at the printer to access the Ethernet menu options on your printer. This menu provides access to all of the configurable network items.

Press this key . . .	(until) the message window reads. . .
 Menu Select 	MENU PROOF/PRINT MENU or if no optional hard disk is installed: MENU PRINT MENU
	MENU INTERFACE MENU
 Menu Select 	
 Menu Select 	



Restart the printer after changing settings in the ETHERNET menu.

Using the Ethernet Menu Options

If the printer is connected to a network, the following settings should be specified. For details about each setting, contact your network administrator.



When manually setting the IP address, Subnet Mask, and Gateway turn off DHCP first.

TCP/IP

Enable

Purpose	Enables or disables TCP/IP. If YES is selected, TCP/IP is enabled. If NO is selected, TCP/IP is disabled.
Options	YES NO
Default	YES

DHCP/BOOTP

Purpose	If there is a DHCP or BOOTP server on the network, specifies whether the IP address and other network information is automatically assigned by the DHCP or BOOTP server.
Options	YES NO
Default	YES

IP Address

Purpose	Sets the IP address of this printer on the network.
Range	0–255 for each xxx triplet Use the Up and Down keys to increase or decrease each number; use the Left and Right keys to move between triplets.
Default	192.168.001.002

Default Router

Purpose	Sets the address of the router/gateway if a router/gateway is used on your network and you allow users outside your network environment to print on your printer.
Range	0–255 for each xxx triplet Use the Up and Down keys to increase or decrease each number; use the Left and Right keys to move between triplets.
Default	000.000.000.000

Subnet Mask

Purpose	Sets the subnet mask value of the network. The subnet mask allows you to limit access to your printer (for example, according to departmental divisions).
Range	0–255 for each xxx triplet Use the Up and Down keys to increase or decrease each number; use the Left and Right keys to move between triplets.
Default	000.000.000.000

Enable HTTP

Purpose	Specify whether or not HTTP is used.
Range	YES NO
Default	YES

Enable Auto IP

Purpose	Select whether or not the IP address is automatically acquired when DHCP/BOOTP and PING, ARP are not functioning or when there is no response.
Range	YES NO
Default	NO

IPX/SPX

Frame Type

Purpose	Set the protocol to use for NetWare IPX/SPX.
Range	AUTO 802.2 802.3 ETHER II SNAP
Default	AUTO

EtherTalk

Name

Purpose	Printer Name to find/locate printer on EtherTalk.
Range	Up to 16 characters
Default	MAGICOLOR 2450

Name 2

Purpose	Extension of EtherTalk Name to additional 16 characters, making a total of 32 characters, if required.
Range	Up to 16 characters
Default	[Blank]

Netzone

Purpose	Set the Zone Name for EtherTalk.
Range	Up to 16 characters
Default	ETHERTALK ZONE

Netzone 2

Purpose	Extention of Netzone to additional 16 characters, making a total of 32 characters, if required.
Range	Up to 16 characters
Default	[Blank]

Ethernet Speed

Purpose	Specifies the transmission speed for the network and the transmission method for bi-directional transmission.
Range	AUTO 100 FULL DUPLEX 100 HALF DUPLEX 10 FULL DUPLEX 10 HALF DUPLEX
Default	AUTO

PS Protocol

Purpose	Configures the port to process PostScript jobs as binary or quoted (tagged) binary.
Range	Binary Quoted Binary
Default	Binary

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Network Printing

6

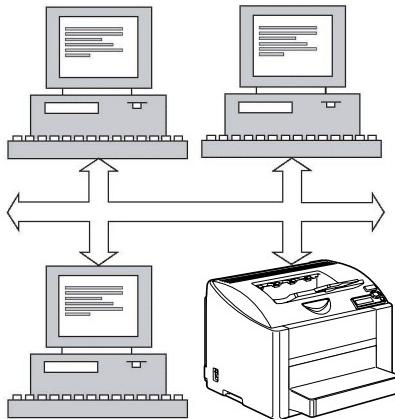
Network Connection

Theory

To connect your printer in a TCP/IP network environment, you must make sure that the internal network addresses in the printer have been set.



In many cases, you have to enter only a unique IP address. However, you may also have to enter a subnet mask and/or a gateway (router) address, depending on your network configuration requirements.



Making the Connection

Ethernet Interface

An RJ45 connector can be used as the Ethernet interface for this printer.

When connecting your printer to an Ethernet network, the tasks you perform depend on how you plan to set the printer's IP (Internet Protocol) address. Printers are shipped with a preset IP address, subnet mask, and gateway.

- **IP Address**—A unique identifier for each device on a TCP/IP network.
- **Subnet Mask**—A filter used to determine what subnet an IP address belongs to.
- **Gateway**—A node on a network that serves as an entrance to another network.

Since the IP address for each PC and printer on your network must be unique, you usually need to modify this preset address so it doesn't conflict with any other IP address or your network or any attached network. You can do this in one of two ways. Each is explained in detail in the following sections.

- Using DHCP
- Setting the address manually

Using DHCP

If your network supports DHCP (Dynamic Host Configuration Protocol), the printer's IP address will be automatically assigned by the DHCP server when you turn on the printer. (Refer to "Network Printing" on page 106 for a description of DHCP.)



If your printer is not automatically assigned an IP address, verify that DHCP is enabled on the printer (MENU PRINT MENU/CONFIGURATION). If it is not enabled, you can enable it in the MENU INTERFACE MENU/ETHERNET/TCP/IP/DHCP/BOOTP menu.

- 1 Connect your printer to the network.

When using an Ethernet cable, plug the RJ45 connector into the Ethernet interface port of the printer.

- 2 Turn on your PC and printer.
- 3 When the printer's message window displays IDLE, install the printer driver and utilities.

Setting the Address Manually

You may also manually change the printer's IP address, subnet mask, and gateway by using the following instructions. (See chapter 5, "Understanding the Ethernet Configuration Menus" for more information.)



When the IP address is changed, add a new port or reinstall the printer driver.



CAUTION

You should always notify your network's administrator before changing the printer's IP address.

- 1** Turn on your PC and printer.
- 2** When the printer's message window displays IDLE, set the IP address.

Press this key . . .	(until) the message window reads . . .
	IDLE
* Menu Select 	MENU PROOF/PRINT or if no optional hard disk is installed: MENU PRINT MENU
	MENU INTERFACE MENU
* Menu Select 	TCP/IP
* Menu Select 	
	IP ADDRESS

Press this key ...	(until) the message window reads ...
	IP ADDRESS 192.168.001.002
Use the and keys to move to each of the four number triplets. Use the and keys to increase or decrease each number.	

3 If you don't want to set the subnet mask or gateway, go to step 5.

If you don't want to set the default rooter, but you do want to set the subnet mask, go to step 4.

If you want to set the default rooter, follow these steps.

Press this key ...	(until) the message window displays ...
	DEFAULT ROOTER 192.168.001.001
	DEFAULT ROOTER 192.168.001.001
Use the and keys to move to each of the four number triplets. Use the and keys to increase or decrease each number.	
	DEFAULT ROOTER xxx.xxx.xxx.xxx

- 4** If you don't want to set the subnet mask, go to step 5.

If you want to set the subnet mask, follow these steps.

Press this key ...	(until) the message window displays ...
	SUBNET MASK 255.255.255.000
	SUBNET MASK 255.255.255.000
Use the  and  keys to move to each of the four number triplets.	
Use the  and  keys to increase or decrease each number.	
	SUBNET MASK <u>xxx</u> . <u>xxx</u> . <u>xxx</u> . <u>xxx</u>

- 5** Save your configuration changes and make the printer ready for printing again.

Press this key ...	(until) the message window displays ...
	Press the  key 4 times to return to READY

- 6** Print a configuration page to verify that the correct IP address, subnet mask, and gateway have been set.

Press this key ...	(until) the message window displays ...
	IDLE

	MENU PROOF/PRINT or if no optional hard disk is installed: MENU PRINT MENU
	MENU PRINT MENU
	CONFIGURATION
	

- 7 When the printer's message window displays IDLE, install the printer driver and utilities.

Network Printing

The magicolor 2450 supports the following network protocols:

- BOOTP
- DHCP
- HTTP
- IPP
- LPD/LPR
- SLP
- SNMP
- Port9100
- SMTP

This chapter defines each of these protocols and then explains how to print via IPP.

BOOTP

BOOTP (Bootstrap Protocol) is an Internet protocol that enables a diskless workstation to discover (1) its own IP address, (2) the IP address of a BOOTP server on the network, and (3) a file that can be loaded into memory to boot the workstation. This enables the workstation to boot without requiring a hard or floppy disk drive.

DHCP

DHCP (Dynamic Host Configuration Protocol) is a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. DHCP also supports a mix of static and dynamic IP addresses. Dynamic addressing simplifies network administration because the software keeps track of IP addresses rather than requiring an administrator to manage the task. This means that a new computer can be added to a network without the hassle of manually assigning it a unique IP address.

HTTP

HTTP (HyperText Transfer Protocol) is the underlying protocol used by the World Wide Web. It defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands. For example, when you enter a URL in your browser, this actually sends an HTTP command to the Web server directing it to fetch and transmit the requested web page.

IPP

IPP (Internet Printing Protocol) is a protocol for end users' most common printing situations over the Internet. It allows users to find out about a printer's capabilities, submit print jobs to a printer, determine the status of the printer or print job, and cancel a previously submitted print job.

For more information on using IPP, See "Printing via IPP (Internet Printing Protocol) – Windows Server 2003/XP/2000" on page 109.

LPD/LPR

LPD/LPR (Line Printer Daemon/Line Printer Request) is a platform-independent printing protocol that runs over TCP/IP. Originally implemented for BSD UNIX, its use has spread into the desktop world and is now an industry standard.

SLP

Traditionally, in order to locate services on the network, users had to supply the host name or network address of the machine providing the desired service. This has created many administrative problems.

However, SLP (Service Location Protocol) simplifies the discovery and use of network resources such as printers by automating a number of network services. It provides a framework that allows networking applications to discover the existence, location, and configuration of networked services.

With SLP users no longer need to know the names of network hosts. Instead, they need to know only the description of the service they are interested in. Based on this description, SLP is able to return the URL of the desired service.

Unicast, Multicast, and Broadcast

SLP is a unicast and a multicast protocol. This means that messages can be sent to one agent at a time (unicast) or to all agents (that are listening) at the same time (multicast). However, a multicast is not a broadcast. In theory, broadcast messages are “heard” by every node on the network. Multicast differs from broadcast because multicast messages are only “heard” by the nodes on the network that have “joined the multicast group.”

For obvious reasons network routers filter almost all broadcast traffic. This means that broadcasts that are generated on one subnet will not be “routed” or forwarded to any of the other subnets connected to the router (from the router’s perspective, a subnet is all machines connected to one of its ports). Multicasts, on the other hand, are forwarded by routers. Multicast traffic from a given group is forwarded by routers to all subnets that have at least one machine that is interested in receiving the multicast for that group.

SNMP

SNMP (Simple Network Management Protocol) is actually a set of protocols for managing complex networks. SNMP works by sending messages to different parts of a network. SNMP-compliant devices, called agents, store data about themselves in Management Information Bases (MIBs) and return this data to the SNMP requesters.

Port 9100

When printing through a network, TCP/IP port number 9100 can be used to send raw data.

SMTP

SMTP (Simple Mail Transfer Protocol) is a protocol for sending e-mail. This protocol was originally used to send e-mail between servers; however, currently client e-mail software use it to also send e-mail to servers using POP.

Printing via IPP (Internet Printing Protocol) – Windows Server 2003/XP/2000

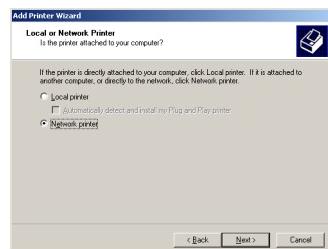
Adding an IPP Port using Add Printer Wizard

- For Windows Server 2003/XP: Click **Start**, select **Printers and Faxes**, and then click **Add Printer**.
 - For Windows 2000: Click **Start**, point to **Settings**, click **Printers**, and then click **Add Printer**.
- 1 In the second dialog box select the **Network Printer** radio button and then choose **Next**.

Windows Server 2003/XP



Windows 2000



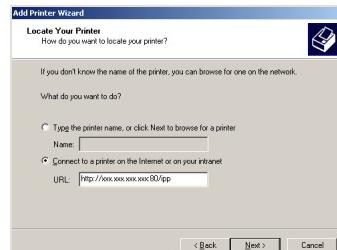
- 2 In the URL field in the next dialog box enter the printer's network path-name in one of the following formats and then choose **Next**:

- <http://ipaddress/ipp>

Windows Server 2003/XP



Windows 2000



- **Windows Server 2003/XP**—“Windows cannot connect to the printer. Either the printer name was typed incorrectly, or the specified printer has lost its connection to the server. For more information, click **Help**.”
- **Windows 2000**—“Could not connect to the printer. You either entered a printer name that was incorrect or the specified printer is no longer connected to the server. Click **Help** for more information.”

3 Windows Server 2003/XP—Go to step 4.

Windows 2000—If you entered a valid path in the previous step, the following message displays: “The server on which the KONICA MINOLTA magicolor 2450 printer resides does not have the correct printer driver installed. If you want to install the driver on your local computer, click **OK**.” The reason for this is that you do not yet have a printer driver installed. Choose **OK**.

- 4** Choose **Have Disk**, locate the directory on the CD-ROM where the printer driver files are located (for example, `drivers\windows 2000, XP, 2003\ps\english`), and then choose **OK**.



- 5** Finish installing the printer driver.

Troubleshooting

Symptom	Action
SMB printing cannot be performed well.	<p>Follow the procedure described below to re-install the printer on a local computer.</p> <ol style="list-style-type: none">1. Delete the printer icon from the printer folder.2. Delete the printer driver and SMB port from the system.3. Use the Add Printer Wizard to install the printer as a local printer. At this time, create a new local port, and specify the SMB port name.
Some client functions are not available with the Point and Print feature when the server is running Windows XP/Server 2003/2000 and the client computer is running Windows NT 4.0.	Install the printer driver directly on the client computer.

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Using PageScope Web Connection

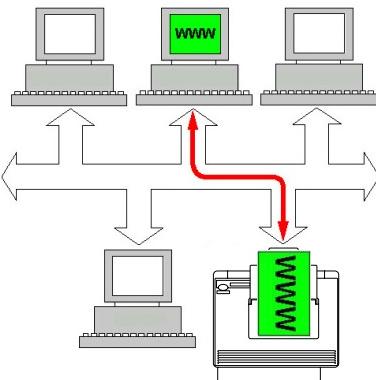
7

About PageScope Web Connection

This chapter provides information on PageScope Web Connection, an HTTP (HyperText Transfer Protocol)-based web page that resides in your printer and that you can access using your Web browser.

This page gives you instant access to printer status and the most frequently used printer configuration options.

Anyone on your network can access the printer using their web browser software. In addition, with the proper password, you can change the configuration of the printer without leaving your PC.



Users who are not given passwords by the administrator can still view the configuration settings and options but are not able to save or apply changes.

Display Language

The language used in the PageScope Web Connection screens is specified from the printer's control panel. For details on specifying the display language, refer to the User's Guide (CD-ROM) provided with the printer.

In addition, the language can be selected in the **System/Administration/Localization Languages** page in PageScope Web Connection.

Requirements

To use PageScope Web Connection, the following is required:

- Windows Server 2003/XP/2000/Me/98SE/NT4.0, MacOS 9/X 10.2 and later, Linux
- Microsoft Internet Explorer version 5.5 or later
Netscape Navigator version 7.1 or later
Safari version 1.0 or later
- You do not need an Internet connection.
- TCP/IP communication software (used by PageScope Web Connection) installed on your PC
- A network, to which both your PC and the printer are connected



*You cannot access PageScope Web Connection using a local
(USB or Parallel) connection.*

Setting Up the Printer Web Page

Setting up the printer web page to run on your network involves two basic steps:

- Determining the name or address of your printer
- Setting up the “no proxy” preferences in your browser software

Determining the Printer Name

The printer web page can be accessed in two ways:



The printer names can also be determined via WINS if the network supports it.

- Through the assigned name of the printer—This name comes from the IP host table (the filename is **hosts**) on the computer system and is usually assigned by the system administrator (for example, magicolor 2450). It may be more convenient for you to use the printer name than the IP address.

Location of the Host Table on the PC

- Windows Server 2003/XP \windows\system32\drivers\etc\hosts
- Windows Me/98SE \windows\hosts
- Windows 2000/NT4.0 \winnt\system32\drivers\etc\hosts
- Through the printer’s IP address—The IP address of your printer is a unique number and, therefore, may be the preferred identification to enter, especially if you have more printers active in your network. The printer’s IP address is listed on the configuration page.

Location of the Configuration Page in the Printer’s Configuration Menu

- MENU PRINT MENU/CONFIGURATION

Setting Up Your Browser Software

Since your printer resides on your intranet and is not accessible beyond the firewall of your network, you must set up the proper “preferences” in your browser software. Your printer name or IP address must be added to the “no proxy” list in the preferences dialog box of the browser.



You need to do this procedure only once.

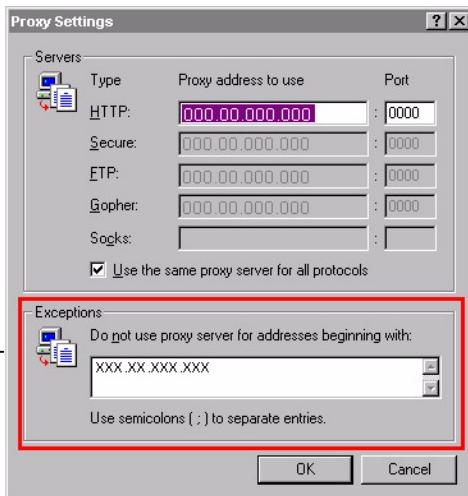
The sample screens below may be different from yours depending on software versions and operating systems in use.



Our examples represent the IP address of the printer with: xxx.xxx.xxx.xxx. Always enter your printer's IP address without leading zeros. For example, 192.168.001.002 should be entered as 192.168.1.2.

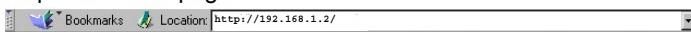
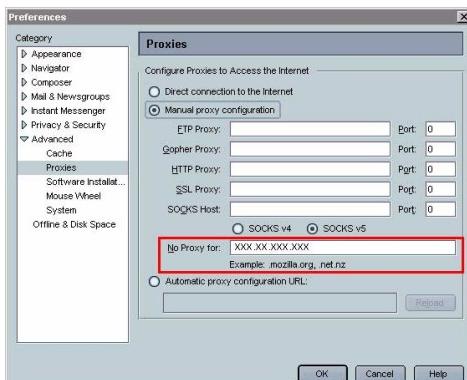
Internet Explorer (version 6.0 for Windows)

- 1 Start Internet Explorer.
- 2 From the **Tools** menu choose **Internet Options**.
- 3 Select the **Connections** tab on the dialog box.
- 4 Choose the **LAN Settings** button to display the Local Area Network (LAN) Settings dialog box.
- 5 Select **Advanced** in Proxy server to open the Proxy Settings dialog box.
- 6 In the **Exceptions** text box, type a comma after the last entry and then type the printer name or the IP address of your printer.
- 7 Choose **OK** three times to return to the main browser window.
- 8 Enter the printer's IP address in the URL Address box to access the printer home page.



Netscape Navigator (version 7.1)

- 1 Start Netscape Navigator.
- 2 From the **Edit** menu choose **Preferences**.
- 3 Select the Advanced/Proxies directory from the left pane of the dialog box.
- 4 Select the **Manual Proxy Configuration** radio button.
- 5 In the **No Proxy for:** text box, type a comma after the last entry, and then type the printer name or the IP address of your printer.
- 6 Choose **OK** to return to the main browser window.
- 7 Enter the printer name or IP address in the URL Location box to access the printer home page.

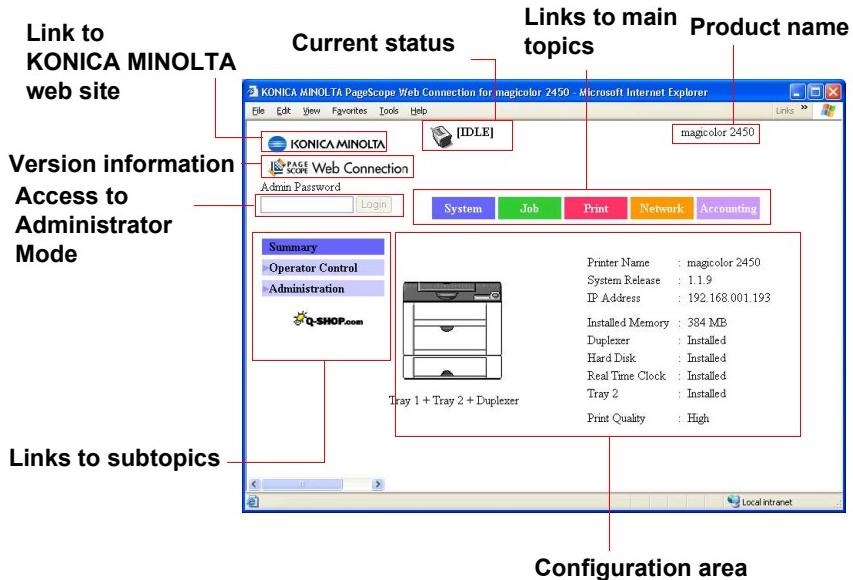


Safari (version 1.1)

- 1 From the **Apple** menu, choose **Location**, and then click **Network preferences**.
- 2 Click the **Proxies** tab in the Network preferences dialog box.
- 3 In the **Bypass proxy settings for these Hosts & Domains** list, type in the name or IP address of the printer.
- 4 Click **Apply Now**.
- 5 In the URL address bar, type in the name or IP address of the printer to access the printer's Web page.

Understanding the PageScope Web Connection Window

The illustration below identifies the navigation and configuration areas of the windows that you see in PageScope Web Connection windows.



Navigation

Selecting the main topic and subtopic displays the configuration area for the printer options (parameters) associated with your selections.

To change a current setting, click on the current setting and then select from the available choices or enter the new value.



In order to apply or save any changes made to the configuration settings, PageScope Web Connection must be logged in from Administrator Mode. (For details, refer to "Administrator Mode" on page 120.)

Current Status

The current status of the printer is displayed at the top of all PageScope Web Connection windows. The icon displays the type of status being displayed.

Icon	Status	Description	Examples
	Ready	The printer is online and either ready to print or printing.	IDLE WARMING UP PRINTING
	Warning	The printer needs attention, but printing continues.	C TONER LOW
	Error	The printer needs attention before printing can resume.	PUT A4 PLAIN TRAY 1 REPLACE C TONER PAPER JAM TRAY 2
	Caution	The printer must be rebooted. If that doesn't fix the error, service is required.	SERVICE CALL 04

User Mode

You automatically enter User Mode whenever you enter PageScope Web Connection. In User Mode you can view configuration settings but not change them.

Administrator Mode

In order to change any configuration settings through PageScope Web Connection, you must first enter Administrator Mode:

By default, security is set to Disabled. If PageScope Web Connection is accessed while security is Disabled, all users can view and change or submit settings on the printer. When security is set to Enabled, users have to login to submit any changes.

1 Type the password in the **Admin Password** text box.

*The default password is "SYSADMIN"; however, once you have logged on in Administrator Mode, the password can be specified in the **System/Administration/Security** window.*

2 Choose the **Login** button.

*If you type an incorrect password, the following message displays:
"Invalid Password Please check your input and try again !" Retype the password.*

Configuring the Printer

The Configuration page allows you to view and change the configuration settings of the printer.

System Page

KONICA MINOLTA PageScope Web Connection for magicolor 2450 - Microsoft Internet Explorer

[IDLE] magicolor 2450

File Edit View Favorites Tools Help

KONICA MINOLTA PAGE SCOPE Web Connection

Admin Password Login

System Job Print Network Accounting

Summary

Printer Name : magicolor 2450
System Release : 1.1.9
IP Address : 192.168.001.193
Installed Memory : 384 MB
Duplexer : Installed
Hard Disk : Installed
Real Time Clock : Installed
Tray 2 : Installed
Print Quality : High

Tray 1 + Tray 2 + Duplexer

Q-SHOP.com

Local intranet

Summary (shown above)

The **System/Summary** window provides the following information:

Item	Description
Printer Name/Status	Shows the name assigned to your printer, and displays the current status of the printer-just as it's displayed on the printer's control panel message window.  <i>The status display allows you to remotely identify possible printer problems, such as out of paper and out of toner.</i>
Device Status (Product image)	Identifies the type of printer that you are browsing. The printer is pictured in the illustration with all installed options.

Item	Description
System Release	Displays the release version of the system code.
IP Address	Identifies the IP address of the printer.
Installed Memory	Displays the amount of memory installed in the printer.
Duplexer	Identifies whether the duplex option is "Installed" or "Not Installed."
Hard Disk	Identifies whether the optional Hard Disk is "Installed" or "Not Installed."
Real Time Clock	Identifies whether the Real Time Clock is "Installed" or "Not Installed."
Tray 2	Identifies whether the optional Tray 2 is "Installed" or "Not Installed."
Print Quality	Displays the current Print Quality setting.



*All of the information displayed on the **System Page/Summary** is read-only, however, some of the items (such as the media type), are configurable on other pages.*

Operator Control

Paper Handling

The screenshot shows the Konica Minolta PageScope Web Connection interface for a magicolor 2450 printer. The main title bar reads "KONICA MINOLTA PageScope Web Connection for magicolor 2450 - Microsoft Internet Explorer". The left sidebar has a tree view with nodes like Summary, Operator Control (selected), Paper Handling (selected), Tray Mapping, Color Matching & Quality, Supplies Status, and Administration. A logo for "Q-SHOP.com" is also present. The top menu bar includes File, Edit, View, Favorites, Tools, and Help. Below the menu is a toolbar with icons for Logout, System (blue), Job (green), Print (pink), Network (yellow), and Accounting (purple). The main content area is titled "Paper Handling". It displays a table with columns for Parameters, Current, Custom, and Factory settings. The table rows include:

Parameters	Current	Custom	Factory
Tray 1 Mode	Cassette	Auto	Auto
Tray 1			
Media Size	Letter	Letter	Letter
Media Type	Plain Paper	Plain Paper	Plain Paper
Tray 2			
Media Size	Letter	Letter	Letter
Media Type	Plain Paper	Plain Paper	Plain Paper
Duplex Mode	Off	Off	Off
Page Orientation	Portrait	Portrait	Portrait
Page Recovery	On	On	On
Tray Chaining	Yes	No	Yes
Auto Continue	On	Off	Off

The **System/Operator Control/Paper Handling** window allows you to view and change the current paper handling option settings. The settings are arranged in 3 columns: Current, Custom, and Factory.

Item	Description
Tray 1 Mode	Configures Tray 1 to be defined by the settings on the keypad in CASSETTE mode or to be automatically overridden by the driver in AUTO mode. Choices: Auto, Cassette Default: Auto Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ TRAY 1 MODE

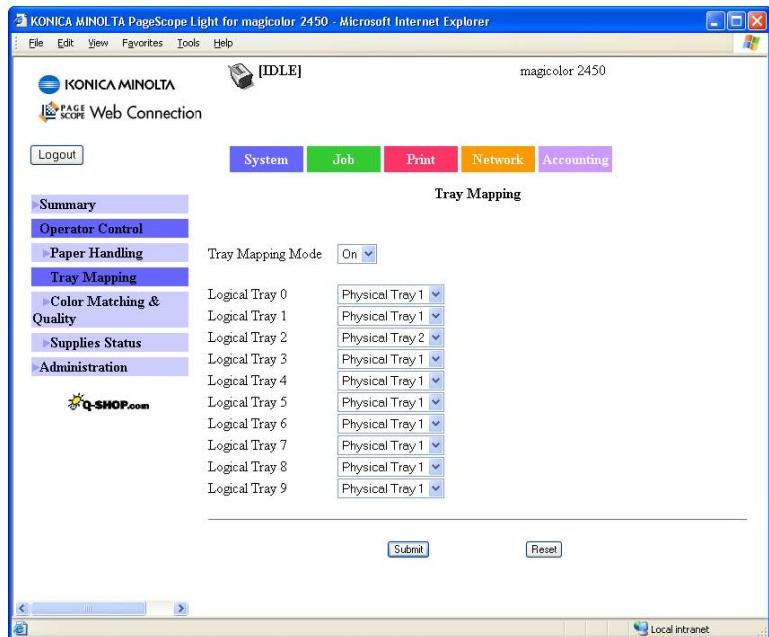
Item	Description
Tray 1	
Media Size	<p>Identifies the media size currently set in the media tray.</p> <p>Configuration Menu Equivalent:</p> <p style="text-align: center;">MENU PAPER MENU/INPUT TRAY/ TRAY 1 MODE/MEDIA SIZE</p>
Media Type	<p>Identifies the media type currently set in the media tray.</p> <p>Configuration Menu Equivalent:</p> <p style="text-align: center;">MENU PAPER MENU/INPUT TRAY/ TRAY 1 MODE/MEDIA TYPE</p>
Tray 2	
Media Size	<p>Identifies the media size currently set in the media tray.</p> <p>Configuration Menu Equivalent:</p> <p style="text-align: center;">MENU PAPER MENU/INPUT TRAY/ TRAY 1 MODE/MEDIA SIZE</p>
Media Type	<p>Identifies the media type currently set in the media tray.</p> <p>Configuration Menu Equivalent:</p> <p style="text-align: center;">MENU PAPER MENU/INPUT TRAY/ TRAY 1 MODE/MEDIA TYPE</p>
Duplex Mode	<p>Duplex printing allows you to print on both sides of the media. Choices are</p> <ul style="list-style-type: none"> ■ Off: Prints simplex pages. ■ Shortedge: Prints duplex pages so pages can be bound at the short edge. ■ Longedge: Prints duplex pages so pages can be bound at the long edge. <p>Choices: Off, Shortedge, Longedge Default: Off Configuration Menu Equivalent:</p> <p style="text-align: center;">MENU PAPER MENU/DUPLEX</p> <p> A duplex unit must be installed to use the duplex feature.</p>

Item	Description
Page Orientation	<p>Identifies the page orientation that the printer should use. Choices are</p> <ul style="list-style-type: none"> ■ Portrait: Vertical orientation (longest side of media vertical) ■ Landscape: Horizontal orientation (longest side of media horizontal) <p>Choices: Portrait, Landscape Default: Portrait Configuration Menu Equivalent: MENU PAPER MENU/ORIENTATION</p>
Page Recovery	<p>When this feature is enabled (On), following the clearing of a media jam the printer reprints any pages that did not progress to the output bin when the media jam occurred.</p> <p>Choices: Off, On Default: On Configuration Menu Equivalent: MENU PAPER MENU/PAGE RECOVERY</p>
Tray Chaining	<p>Tray Chaining allows the printer to switch from one paper source to another when the initial paper source is empty. You can turn Tray Chaining on by selecting Yes. Selecting No turns Tray Chaining off.</p> <p>Choices: No, Yes Default: Yes Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ TRAY CHAINING</p> <p> <i>The optional Tray 2 must be installed to use this setting. Both trays should also have the same media size and media type installed (unless Auto Continue is used - see Auto Continue for more information).</i></p>

Item	Description
Auto Continue	<p>Configures the printer for automatically continuing printing if the media tray has a different media size or media type than what the print job requests.</p> <p>If Off is selected, the Auto Continue feature is disabled. When the requested tray empties, printing will stop until you've identified the media to be used to complete the print job.</p> <p>If On is selected, the Auto Continue feature is enabled. When the requested tray empties, the printer will automatically adjust for the media installed (or for the media installed in the second tray if tray chaining is active) and continue printing.</p> <p>Choices: On, Off Default: Off Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ AUTO CONTINUE</p>
Custom Paper Size Defaults	
Width	<p>Sets the width measurement for custom paper sizes.</p> <p>Range: 3.62 - 8.50" (92 - 216 mm) Default: 3.62" (92 mm) Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ CUSTOM/WIDTH</p>
Height	<p>Sets the height measurement for custom paper sizes.</p> <p>Range: 5.83 - 14.02" (148 - 356 mm) Default: 5.83" (148 mm) Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ CUSTOM/LENGTH</p>
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Item	Description
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

Tray Mapping



The **System/Operator Control/Tray Mapping** window allows you to view and change the current tray mapping options. Tray mapping lets you assign logical mapping numbers to physical media trays.

Item	Description
Tray Mapping Mode	Used to turn tray mapping on and off. Choices: On, Off Default: On Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ MAP/MODE
Logical Tray 0 - 9	Identifies the physical tray for each logical tray number. Configuration Menu Equivalent: MENU PAPER MENU/INPUT TRAY/ MAP/LOGICAL TRAY 0 - 9
Submit button	Saves and applies any changes made.

Item	Description
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Color Matching & Quality

The screenshot shows a Microsoft Internet Explorer window for the Konica Minolta PageScope Light for magicolor 2450. The main title bar reads "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar has icons for Logout, Konica Minolta logo, Sage Web Connection, and a printer icon labeled "[IDLE]". The top right corner shows "magicolor 2450". The left sidebar has a navigation menu with items: Summary, Operator Control, Paper Handling, Tray Mapping, Color Matching & Quality (which is selected and highlighted in blue), Supplies Status, and Administration. The main content area has tabs: System (selected), Job, Print, Network, and Accounting. Below the tabs, the title "Color Matching & Quality" is displayed. The main configuration area is divided into three columns: Parameters, Current, Custom, and Factory. Under Parameters, there are three dropdown menus: Print Quality (High), Color Mode (Color), and Toner Out Action (Stop). Under Density Control, there are four input fields for Cyan, Magenta, Yellow, and Black, each containing the value "3". At the bottom of the page are buttons for Submit, Reset, Save Custom, Restore Custom, and Restore Factory.

The **System/Operator Control/Color Matching & Quality** window allows you to view and change the current paper handling options. The settings are arranged in 3 columns: Current, Custom, Factory.

Item	Description
Print Quality	<p>Used to select the printing resolution. Choices are</p> <ul style="list-style-type: none">■ Standard: 600 × 600 dpi (dots per inch) color■ High: 600 × 600 dpi with contone imaging■ Default: High <p>Configuration Menu Equivalent:</p> <pre>MENU SYSTEM DEFAULT/PRINT QUALITY</pre>

Item	Description
Color Mode	<p>Sets the mode to use color or monochrome output.</p> <p>Choices: Color, Grayscale Default: Color</p> <p>Configuration Menu Equivalent: MENU SYSTEM DEFAULT/COLOR MODE</p>
Toner Out Action	<p>Determines if the printer continues accepting jobs sent to it when a low toner condition occurs.</p> <p>Choices: Stop, Continue Default: Stop</p> <p>Configuration Menu Equivalent: MENU QUALITY MENU/TONER OUT ACTION</p>
Density Control	<p>Adjusts toner (color) density of each color (cyan, magenta, yellow, and black). The higher the value, the higher the density of the color.</p> <p>Range: 1 - 5 Default: 3</p> <p>Configuration Menu Equivalent: MENU QUALITY MENU/DENSITY CONTROL</p>
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

Supplies Status

The screenshot shows the Konica Minolta PageScope Web Connection interface for a magicolor 2450 printer. The main title bar reads "KONICA MINOLTA PageScope Web Connection for magicolor 2450 - Microsoft Internet Explorer". The left sidebar has a "Logout" button and a navigation menu with tabs: System (selected), Job, Print, Network, and Accounting. The main content area displays the "Printer Name: magicolor 2450". On the left, a vertical menu lists "Summary", "Operator Control", "Paper Handling", "Tray Mapping", "Color Matching & Quality", "Supplies Status" (selected), and "Administration". The "Supplies Status" section shows the following consumable information:

Item	Amount Remaining	Percent Remaining
Cyan Toner 1500 Planes Max*	1500	100%
Magenta Toner 1500 Planes Max*	1500	100%
Yellow Toner 1500 Planes Max*	1500	100%
Black Toner 1500 Planes Max*	1500	100%
OPC Drum, Unit 45000 Planes Max	44100	98%

* Toner usage is based upon average 5% coverage.

The **System/Operator Control/Supplies Status** window provides the following information:

Item	Description
Consumable items	Identifies the type of consumable that is being monitored.
Status bars	Graphically represent the remaining life of the identified consumable item.
Amount Remaining	Describes the remaining life of the consumable item in plane or face counts.  <i>Plane counts are based on 5% toner coverage for each page. If your pages average more than 5% coverage, the remaining life is less than the plane count displayed.</i>
Percent Remaining	Describes the amount of remaining life for the consumable using a percentage of total life based on plane or face counts.

Administration

Startup Options & Resets

KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer

[IDLE] magicolor 2450

KONICA MINOLTA PAGE SCOPE Web Connection

Logout System Job Print Network Accounting

Startup Options & Resets

Summary

Operator Control

Administration

Startup Options & Resets

Localization Languages

E-Mail Configuration

Date & Time

Security

Online help

Print System Pages

Configuration Page

Statistics Page

Disk Operations



Energy Saver 30 Minutes

Energy Saver Mgt Off

Reset Printer

Printer Name magicolor 2450

Sysstart No

Start Page No

Resets

None

Restore Factory

Save Custom

Restore Custom

Submit Reset

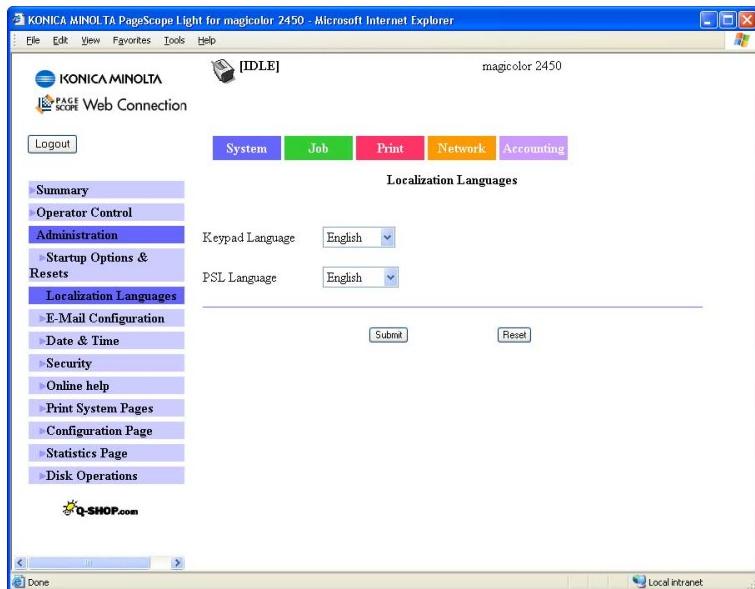
Local intranet

The **System/Administration/Startup Options & Resets** window provides the following parameters for configuration:

Item	Description
Energy Saver	<p>If no print jobs are sent to the printer for the time specified by this parameter, the printer's Energy Saver feature is activated.</p> <p>Choices: 15 Minutes, 30 Minutes, 1 Hour, 2 Hours Default: 30 Minutes</p> <p>Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ENERGY SAVER</p> <p> <i>2 Hours is available on the model for America only.</i></p> <p> <i>The energy saver feature is disabled and enabled from the Energy Saver Mgt. parameter described next.</i></p>
Energy Saver Mgt.	<p>Sets energy saver management on or off.</p> <p>If On is selected, Energy saver settings are active.</p> <p>If Off is selected, Energy saver settings are ignored.</p> <p>Choices: On, Off Default: On</p> <p>Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ENERGY SAVER MGT</p> <p> <i>Only available in models for the Americas.</i></p>
Reset Printer	Reboots the printer.
Printer Name	<p>Sets the printer name. Default: magicolor 2450</p>

Item	Description
Sysstart	If you have an optional hard disk installed and 'Sysstart' is enabled (Yes), the controller checks the optional hard disk for a PostScript file named Sys/Start and executes this file. Choices: Yes, No Default: No Configuration Menu Equivalent: MENU SYSTEM DEFAULT/STARTUP OPTIONS/SYSSTART
Start Page	Sets the printer to print a startup page when the printer is powered on. Choices: Yes, No Default: No Configuration Menu Equivalent: MENU SYSTEM DEFAULT/STARTUP OPTIONS/STARTUP PAGE
Resets	If None is selected, no action is performed. If Restore Factory is selected, restores the factory default settings of the printer. If Save Custom is selected, saves any changes to the printer parameters as the Custom settings. If Restore Custom is selected, restores the Custom settings of the printer. Choices: None, Restore Factory, Save Custom, Restore Custom Default: None Configuration Menu Equivalent: MENU SYSTEM DEFAULT/RESTORE/ SAVE
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Localization Languages



The **System/Administration/Localization Languages** window provides the following parameters for configuration:

Item	Description
Keypad Language	<p>Identifies the language of the keypad located on the printer.</p> <p>The language selections appear in the message window in the corresponding language, for example, GERMAN appears as DEUTSCH.</p> <p>Choices: Czech, English, French, German, Italian, Portuguese, Spanish</p> <p>Default: English</p> <p>Configuration Menu Equivalent: MENU LANGUAGE</p>

Item	Description
PSL Language	<p>Identifies the language displayed in the PageScope Web Connection windows.</p> <p>The language selections appear in the message window in the corresponding language, for example, GERMAN appears as DEUTSCH.</p> <p>Choices: Czech, English, French, German, Italian, Portuguese, Spanish, Simplified Chinese, Traditional Chinese, Russian</p> <p>Default: English</p>
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

E-Mail Configuration

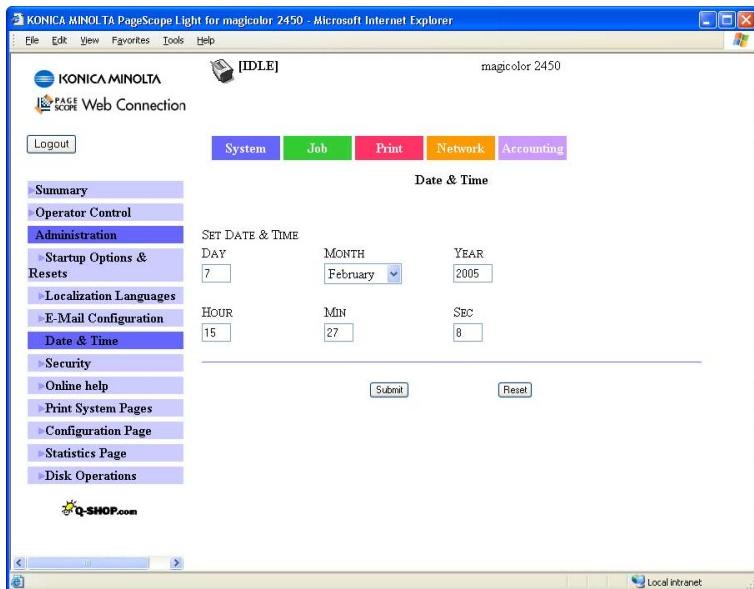
The screenshot shows a Microsoft Internet Explorer window titled "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The main content area is titled "E-Mail Configuration". On the left, there is a vertical menu bar with the following items: Logout, System, Job, Print, Network, Accounting, Summary, Operator Control, Administration, Startup Options & Resets, Localization Languages, E-Mail Configuration (which is highlighted in blue), Date & Time, Security, Online help, Print System Pages, Configuration Page, Statistics Page, and Disk Operations. The "E-Mail Configuration" section contains fields for "From Address", "To", and "Subject". Below these are options for "When to send Email Notification on Error": Off (radio button selected), 1 Minute, 30 Minutes, 1 Hour, and Test. There is also a field for "SMTP MAIL SERVER" and "Mail Server Address" (set to 000.000.000.000) with a note: "NOTE: Mail Server IP Address Changes Will Not Take Effect Until The Printer Is Reset". At the bottom are "Submit" and "Reset" buttons.

The **System/Administration/E-Mail Configuration** window provides the following parameters for configuration:

Item	Description
From Address	Identifies the From address that appears on email generated by the printer. Default: [Blank]  <i>The value entered for this parameter must comply with RFC formatting standards: name@domain_name Commas, semicolons, colons, and spaces are not allowed.</i>
To	Identifies the destination address of email generated by the printer. Default: [Blank]
Subject	Identifies the subject text that appears on email generated by the printer. Default: [Blank]

Item	Description	
When to Send Email Notification on Error		Identifies how long the printer waits after an error condition before generating and sending an email message. Choices: Off, 1 Minute, 30 Minutes, 1 Hour, Test Default: Off
SMTP MAIL SERVER	Mail Server Address	Identity of your mail server. Default: 000.000.000.000  <i>Change to this field requires a reboot of the printer before it will work.</i>
Submit button		Saves and applies any changes made.
Reset button		If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Date & Time



The **System/Administration/Date & Time** window provides the following parameters for configuration of printer's with an installed hard disk:

Item	Description
Day, Month, Year	Sets the current day, month, and year. Configuration Menu Equivalent: MENU SYSTEM DEFAULT/DATE & TIME
Hour, Min, Sec	Sets the current hour, minute, and second. Configuration Menu Equivalent: MENU SYSTEM DEFAULT/DATE & TIME
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Security

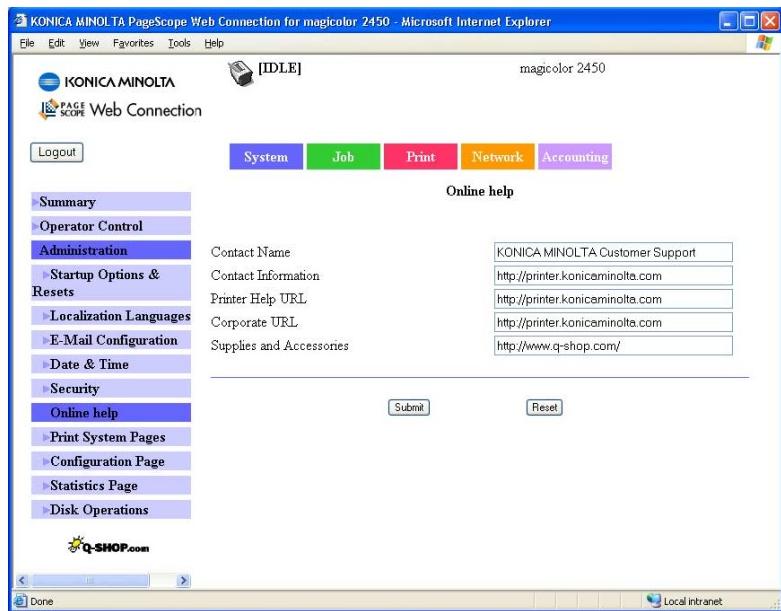
The screenshot shows a web-based printer management interface. At the top, the title bar reads "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". Below the title bar, there is a menu bar with options: File, Edit, View, Favorites, Tools, Help. A status bar at the bottom right indicates "magicolor 2450". The main content area has a header "Security" with tabs: System (selected), Job, Print, Network, Accounting. On the left, a sidebar lists navigation links: Summary, Operator Control, Administration (selected), Startup Options & Resets, Localization Languages, E-Mail Configuration, Date & Time, Security (selected), Online help, Print System Pages, Configuration Page, Statistics Page, Disk Operations. Below the sidebar is a logo for "Q-SHOP.com". The central panel displays the "Administration" section under "Security". It includes fields for "Enable security" (checkbox checked), "Set Password" (text input field containing "*****"), and "Verify Password" (text input field). Buttons for "Submit" and "Reset" are located below these fields. At the bottom of the page, there are navigation icons (back, forward, search) and a link to "Local intranet".

The **System/Administration/Security** window provides the following parameters for configuration:

Item	Description
Enable Security	When selected, enables the printer's security feature, which requires users to enter the password to access or change printer information and configuration. Default: [Not checked] Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ SECURITY/CONFIG/ENABLE
Set Password	Sets the printer password. Range: Up to 16 characters Default: SYSADMIN Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ SECURITY/CONFIG/SET PASSWORD

Item	Description
Verify Password	<p>Vерifies the password entered in the above field. If the password entered in this field doesn't match the text entered in the Set Password field, the password is not set when the Submit button is selected.</p> <p>Range: Up to 16 characters</p> <p>Default: [Blank]</p>
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Online help



The **System/Administration/Online Help** window provides the following parameters for configuration:

Item	Description
Contact Name	Identifies the organization that provides assistance with the printer. Range: Up to 64 characters Default: KONICA MINOLTA Customer Support
Contact Information	Phone number. Range: Up to 128 characters Default: http://printer.konicaminolta.com
Printer Help URL	Help website address. Range: Up to 128 characters Default: http://printer.konicaminolta.com
Corporate URL	The KONICA MINOLTA website address. Range: Up to 128 characters Default: http://printer.konicaminolta.com
Supplies and Accessories	Phone number. Range: Up to 128 characters Default: http://www.q-shop.com/

Item	Description
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Print System Pages

The screenshot shows a web-based printer control interface. At the top, it says "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". Below the menu bar, there's a logo for "KONICA MINOLTA" and "Web Connection". A status indicator "IDLE" is shown next to a printer icon. On the right, it says "magicolor 2450". The main navigation bar has tabs: "Logout", "System" (selected), "Job", "Print", "Network", and "Accounting". On the left, a sidebar lists various configuration options: Summary, Operator Control, Administration, Startup Options & Resets, Localization Languages, E-Mail Configuration, Date & Time, Security, Online help, Print System Pages (selected), Configuration Page, Statistics Page, and Disk Operations. At the bottom of the sidebar is a logo for "Q-SHOP.com". The central content area is titled "Print System Pages" and contains a list of print options with radio buttons for selection: Print Configuration Page, Print Statistics Page, Print List of Installed PS Fonts, Print List of Installed PCL Fonts, Print Directory Listing, Print Menu Map, Print Demo Page, and Print Registration Page. Below this list are "Submit" and "Reset" buttons. At the very bottom of the page, there's a "Local Intranet" link.

The **System/Administration/Print System Pages** window allows you to select and print any of the printer's built-in system pages.

Item	Description
Print System Pages	<p>The system pages available in your printer are displayed in the list. Select the page you would like to have printed, and then select the Submit button. After the Submitted message appears, select OK.</p> <p>Configuration Menu Equivalent:</p> <pre>MENU PRINT MENU/ CONFIGURATION</pre> <p> <i>The Reset button clears the selection indicator from the list.</i></p>

Configuration Page

The screenshot displays the Konica Minolta PageScope Web Connection interface for a magicolor 2450 printer. The main window title is "KONICA MINOLTA PageScope Web Connection for magicolor 2450 - Microsoft Internet Explorer". The top menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar features icons for Logout, Konica Minolta logo, and a status indicator showing "IDLE". The page title is "magicolor 2450". The navigation bar at the top has tabs for System, Job, Print, Network, and Accounting, with "Configuration Page" currently selected.

Printer Information

Product Name:	magicolor 2450
Printer Name:	magicolor 2450
System Release:	1.1.5
Engine Firmware Version:	413950G00700
System Date:	THU MAR 03 10:40:54 2005
Default Emulation:	Automatic
Installed Memory:	384
Serial Number:	0301300448
Print Quality:	High
Typeface Fonts:	255
Faces Printed:	37
Sheets Printed:	41
Normalized Mono (K) Faces:	5
Normalized Color Faces:	32

Installed Options

Duplexer	Installed
Internal Hard Disk	Installed
Drive Size:	15341 MB
Free Space:	15338 MB
Real Time Clock:	Installed
Tray 2:	Installed

Printer Interfaces

Parallel	Mode: No
	I/O Timeout: 30 Sec

Paper Settings

Tray Chaining:	Yes
Duplex Mode:	Off
PS Error Page:	On

The **System/Administration/Configuration Page** window provides the following information:

Item	Description
Printer Information	Displays the basic printer properties, as well as page counts to date.
Installed Options	Displays all printer options and identifies which options are installed in the printer.
Printer Interfaces	Displays Parallel, USB, and Resident NIC (Network Interface Card) information.
Paper Settings	Displays Tray configuration, duplex setting, and Special Pages information.

Statistics Page

The screenshot shows the Konica Minolta PageScope Web Connection interface for a magicolor 2450 printer. The top menu bar includes File, Edit, View, Favorites, Tools, and Help. The main header displays the product name "magicolor 2450". A navigation bar at the top right includes Logout, System, Job, Print, Network, and Accounting. On the left, a vertical menu lists: Summary, Operator Control, Administration, Startup Options & Resets, Localization Language, E-Mail Configuration, Date & Time, Security, Online help, Print System Pages, Configuration Page, Statistics Page (which is selected), and Disk Operations. A logo for "Q-SHOP.com" is visible near the bottom left of the menu. The central content area shows printer details: Product Name magicolor 2450, Printer Name: magicolor 2450, Serial Number: 0301300448, System Date: THU MAR 03 10:41:29 2005, and System Release: 1.1.5. Below this, a table titled "Supplies Status" provides information on toner levels:

	Max Life	% Remaining	Amount Remaining
Cyan Toner	1500	100	1500
Magenta Toner	1500	100	1500
Yellow Toner	1500	100	1500
Black Toner	1500	100	1500
OPC Drum Unit	45000	98	44100

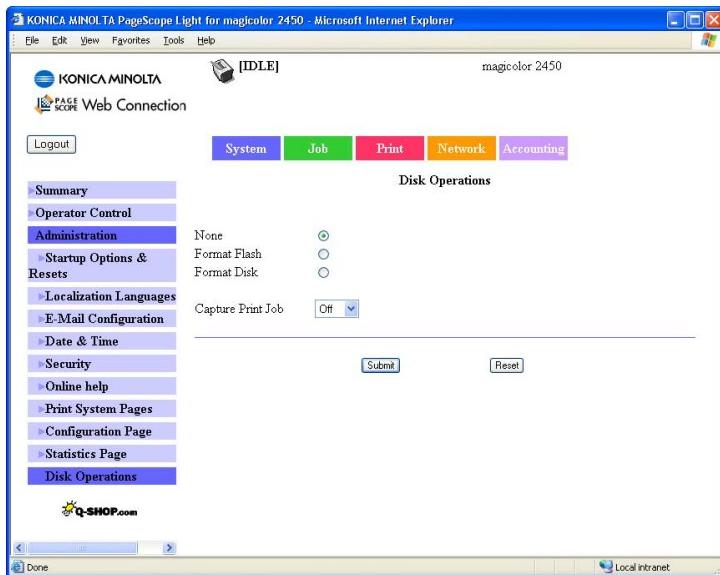
Below the supplies table is a section titled "Page Information" with a sub-section "Sheets Printed by Media Size". This section lists media types and their counts:

Media Size	Count
Envelope	0
Postcards	0
B5	0
Letter	33
A4	8
Legal	0

The **System/Administration/Statistics Page** window provides the following information:

Item	Description
Supplies Status	Displays the statistics of consumable items in the printer.
Page Information	Displays printer statistics grouped by Sheets Printed by Media Size, Sheets Printed by Media Type, Total Normalized Counts, and Normalized Coverage Information.

Disk Operations



The **System/Administration/Disk Operations** window provides the following parameters for configuration of printer's with an installed hard disk:

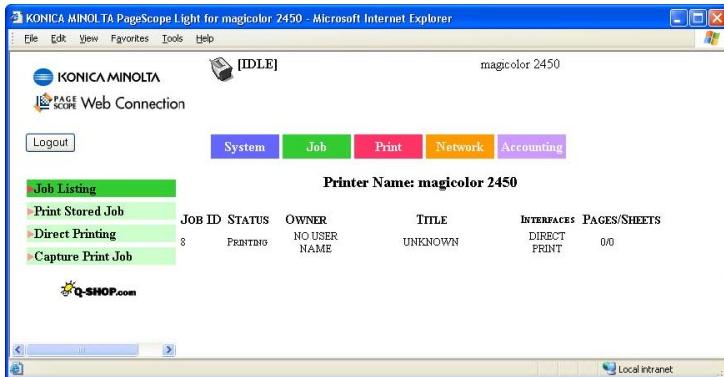
Item	Description
None	No disk operation is performed.
Format Flash	Clears the Flash memory of the printer. Configuration Menu Equivalent: MENU SYSTEM DEFAULT / FORMAT / FORMAT FLASH
Format Disk	Formats the printer's internal hard disk, erasing all data previously stored on the disk. Configuration Menu Equivalent: MENU SYSTEM DEFAULT / FORMAT / FORMAT DISK

Item	Description
Capture Print Job	<p>Captures a print job on the optional Hard Disk.</p> <p>If On is selected, the job is saved on the hard disk, but is not printed.</p> <p>If Print is selected, the job is saved on the hard disk and a single copy is printed.</p> <p>Choices: Off, On, Print</p> <p>Default: Off</p> <p> <i>To use Capture Print Job feature, the optional Hard Disk must be installed on the printer.</i></p>
Submit button	Click this button to perform the selected operation.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Job Page

This window allows you to view the status and history of print jobs, print stored jobs, use direct printing and retrieve captured jobs from Hard Disk.

Job Listing (shown above)



The **Job/Job Listing** window provides the following information about recent print jobs:

Item	Description
JOB ID	Each job that the printer receives is assigned a unique identification number.
STATUS	Displays the current status of the print job.
OWNER	If known, displays the owner of the print job.
TITLE	If known, displays the title of the print job.
INTERFACES	Displays the printer interface that was used to process the incoming print job.
PAGES/SHEETS	Indicates the number of pages in the print job.

Print Stored Job

The screenshot shows the Konica Minolta PageScope Web Connection interface for a magicolor 2450 printer. The main menu bar includes File, Edit, View, Favorites, Tools, and Help. The top status bar indicates the printer is [IDLE] and the model is magicolor 2450. The navigation bar features tabs for Logout, System, Job, Print, Network, and Accounting. On the left, a sidebar menu lists Job Listing, Print Stored Job (which is selected and highlighted in green), Direct Printing, and Capture Print Job. The central content area is titled 'Printer Name: magicolor 2450' and displays 'STORED JOBS'. It shows one job entry: Job ID 1, Job Type STORED, Job Blue hills.jpg, Owner Administrator, Copies 1, and PIN (input field). A 'Submit' button is located at the bottom right of this section. The bottom of the window shows standard browser controls (Back, Forward, Stop, Refresh) and a 'Done' button.



The printer must have the optional hard disk to use the Stored Job parameters described below.

The **Job/Print Stored Job** window provides the following parameters for configuration:

Item	Description
JOB ID	Displays the Job ID of the stored job.
JOB	Displays the name of the stored job.
OWNER	If known, displays the owner of the stored job.
COPIES	Displays the number of copies that the stored print job has been configured to print. Displays the list of specified settings.
PIN	Password field that is required on secured print jobs.
Submit button	When clicked, prints the selected stored job.

Direct Printing

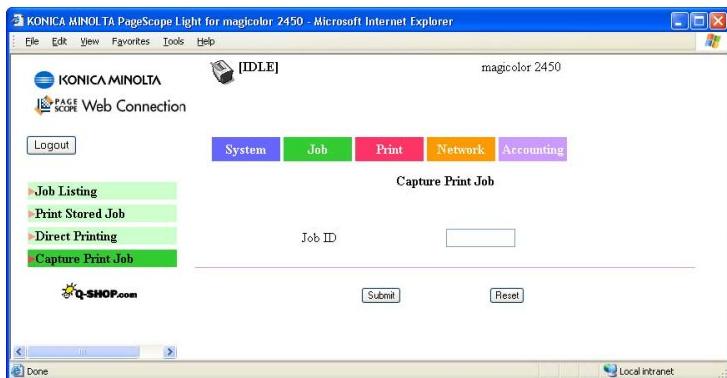


The **Job/Direct Print** page allows you to print a file directly from the printer without starting up the application.

The following file formats can be printed using direct printing: PDF, TIF and JPEG

Item	Description
File Name	Contains the name of the file to be printed.
Browse button	This button allows you to locate the file that you want to print. After selecting a file, the file name appears in the File Name text box.
Submit button	Clicking this button sends the chosen file to the printer for printing.

Capture Print Job



The **Job/Capture Print Job** page allows you to save jobs saved on a hard disk as a file on the computer.

To use this function, **Capture Print Job** on the **System/Disk Operation** page must be set to **On** or **Print**.

Item	Description
Job ID	Sets the job ID that appeared in the Job/Job Listing page.
Submit button	Click this button to display a confirmation message. Then, click the UPLOAD button to save the job as a file.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Print Page

The Print page allows more detailed printer settings to be specified.



Local Interface

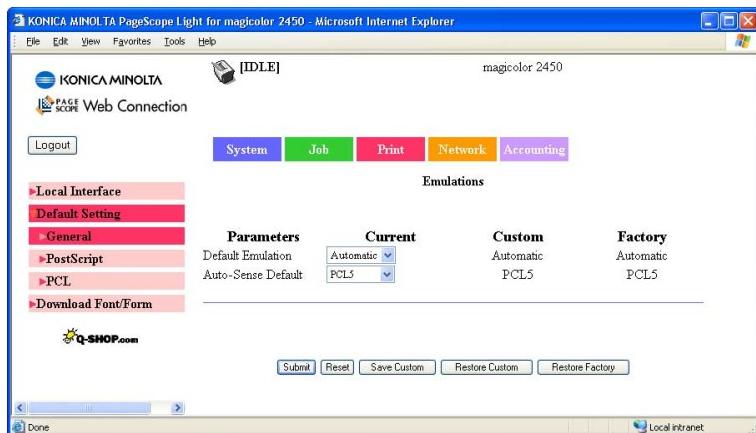
USB (shown above)

The Print/Local Interface/USB window provides the following parameters for configuration:

Item	Description
Enable USB	If selected, enables the parameter settings for USB. Default: [Checked] Configuration Menu Equivalent: MENU INTERFACE MENU/USB/ ENABLE
Job Timeout	Sets the number of seconds the interface waits for further data from the host before terminating a spooled print job. Range: 0 - 999 (in seconds) Default: 60 Configuration Menu Equivalent: MENU INTERFACE MENU/USB/JOB TIMEOUT
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Default Setting

General

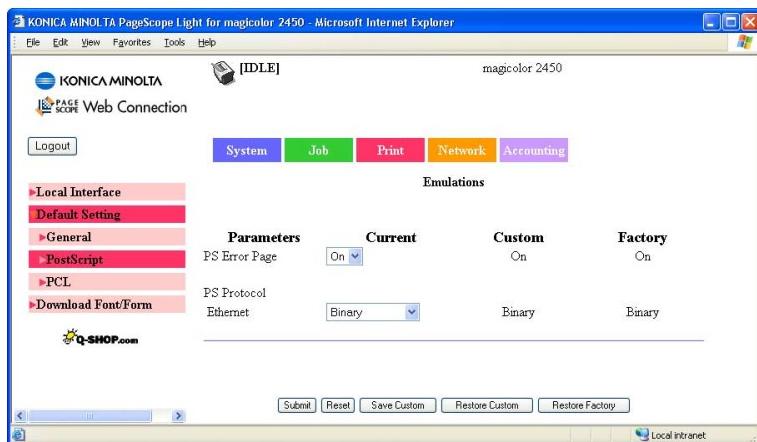


The **Print/Default Setting/General** window provides the following parameters for configuration. The settings are arranged in 3 columns: Current, Custom, Factory.

Item	Description
Default Emulation	Assigns the selected emulation as the default emulation. The default emulation is used whenever a print job without emulation identification is received. Choices: Automatic, Postscript, PCL5, PCL XL, Hex Dump, PDF Default: Automatic Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ EMULATIONS/DEFAULT
Auto-Sense Default	When Auto is selected as the Default Emulation (see above), the printer samples the incoming print job to try to determine the correct emulation to use for the job. If the printer is unable to discern the emulation of an incoming print job, the setting for this parameter is used as the emulation. Choices: PCL5, Postscript Default: PCL5 Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ EMULATIONS/AUTO DEFAULT
Submit button	Saves and applies any changes made.

Item	Description
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

PostScript



The **Print/Default Setting/PostScript** window provides the following parameters for configuration. The settings are arranged in 3 columns: Current, Custom, Factory.

Item	Description
PS Error Page	Print an error page if the print job cannot be printed or creates an error. Choices: On, Off Default: On Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ EMULATIONS/POSTSCRIPT/ERROR PAGE
PS Protocol Ethernet	Sets the binary communications protocol (BCP). Choices: Binary, Quoted Binary Default: Binary Configuration Menu Equivalent: MENU INTERFACE MENU/ ETHERNET/PS PROTOCOL
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Item	Description
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

PCL

The screenshot shows a web-based printer control interface. At the top, it says "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". Below that is a menu bar with File, Edit, View, Favorites, Tools, Help. A status bar at the top right says "magicolor 2450". The main area has a left sidebar with links like Logout, Local Interface, Default Setting, General, PostScript, PCL, and Download Font/Form. The right side has tabs for System, Job, Print, Network, Accounting, and Emulations (which is selected). Under Emulations, there's a table for PCL Fonts with columns for Parameters, Current, Custom, and Factory. The parameters include Line Termination (CR=CR LF=CRLF), Pitch Size (10.00), Font Number (0), Point Size (12.00), and Symbol Set (PC8). Buttons at the bottom include Submit, Reset, Save Custom, Restore Custom, and Restore Factory.

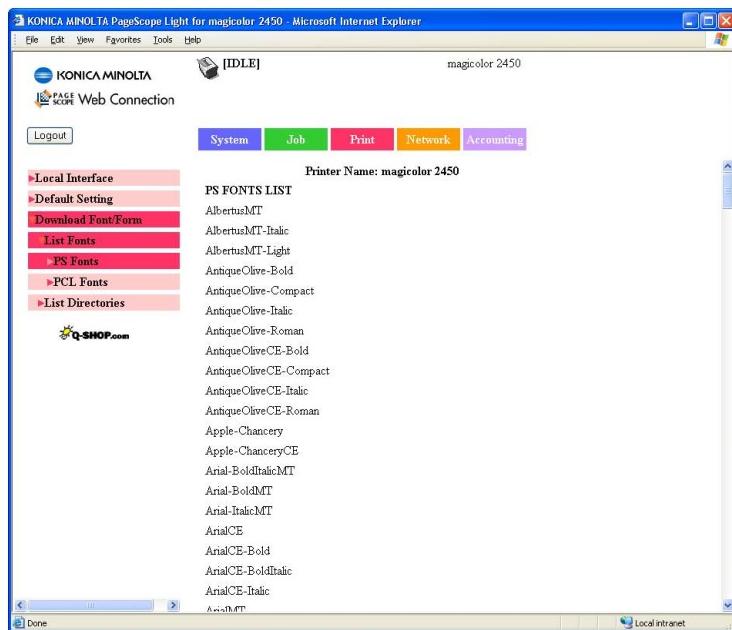
The **Print/Default Setting/PCL** window provides the following parameters for configuration. The settings are arranged in 3 columns: Current, Custom, Factory.

Item	Description		
Line Termination	Sets the line termination value. Choices: CR=CR LF=CRLF, CR=CR LF=LF, CR=CRLF LF=LF, CR=CRLF LF=CRLF Default: CR=CR LF=CRLF Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ EMULATIONS/PCL/LINE TERMINATION	Current	Custom
PCL Fonts	Pitch Size	Controls the font pitch in characters per inch (cpi). Range: Up to 4 characters (0.44 - 99.99) Default: 10.00 Configuration Menu Equivalent: MENU SYSTEM DEFAULT/ EMULATIONS/PCL/FONT/PITCH SIZE	Factory

Item	Description
	<p>Font Number</p> Identifies the PCL font number. Range: Up to 5 characters (0 - 32767) Default: 0 Configuration Menu Equivalent: <pre>MENU SYSTEM DEFAULT/ EMULATIONS/PCL/FONT/FONT NUMBER</pre>
	<p>Point Size</p> Controls the height (in points) of the default font. Range: Up to 5 characters (4.00 - 999.75) Default: 12.00 Configuration Menu Equivalent: <pre>MENU SYSTEM DEFAULT/ EMULATIONS/PCL/FONT/POINT SIZE</pre>
	<p>Symbol Set</p> Sets the symbol set to be used. Default: PC8 Configuration Menu Equivalent: <pre>MENU SYSTEM DEFAULT/ EMULATIONS/PCL/FONT/SYMBOL SET</pre>
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Save Custom button	Saves the Current values of the parameters as the Custom settings. Using the Restore Custom button, you can change the parameter settings back to the Custom settings after changes are made.
Restore Custom button	Changes all settings to the Custom values.
Restore Factory button	Changes all settings to the Factory values.

Download Font/Form

List Fonts/PS Fonts



The **Printer/Download Font/Form/List Fonts/PS Fonts** window displays a list of PostScript fonts installed on the printer.

Configuration Menu Equivalent:

MENU PRINT MENU/FONT LIST/POSTSCRIPT

List Fonts/PCL Fonts

The screenshot shows a Microsoft Internet Explorer window titled "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The window has a menu bar with File, Edit, View, Favorites, Tools, and Help. Below the menu is a toolbar with icons for Logout, System, Job, Print, Network, and Accounting. The main content area displays a list of PCL fonts installed on the printer "magicolor 2450". The list is titled "PCL FONTS LIST" and includes the following entries:

Font Name	INDEX
Courier	00000
Courier Italic	00001
Courier Bold	00002
Courier Bold Italic	00003
Nasch	00004
Nasch Bold	00005
Albertus Medium	00006
Albertus Extra Bold	00007
Antique Olive	00008
Antique Olive Italic	00009
Antique Olive Bold	00010
Arial	00011
Arial Italic	00012
Arial Bold	00013
Arial Bold Italic	00014
Clarendon Condensed Bold	00015
Coronet	00016
Garamond Antiqua	00017
Garamond Kursiv	00018
Garamond Halbfett	00019
Garamond Kursiv Halbfett	00020
Letter Gothic	00021

The **Printer/Download Font/Form/List Fonts/PCL Fonts** window displays a list of PCL Fonts installed on the printer and also the Index values of each font.

Configuration Menu Equivalent:

MENU PRINT MENU/FONT LIST/PCL

List Directories/Disk Drive

The screenshot shows a web browser window for the Konica MINOLTA PageScope Light interface. The title bar reads "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar has icons for Logout, Print, Network, Accounting, and a printer icon labeled [IDLE]. The main content area has tabs for System, Job, Print, Network, and Accounting, with "Printer Name: magicolor 2450" selected. On the left is a sidebar with links: Local Interface, Default Setting, Download Font/Form, List Fonts, List Directories (which is highlighted in green), Disk Drive, and FLASH Memory. A watermark for "QQ-SHOP.com" is visible at the bottom left. The right side of the screen displays a list of files in the printer's hard disk directory:

```
Printer Name: magicolor 2450
Disk Directory Path: /ata0a
***** DISK DIRECTORY LISTING *****
Listing Directory /ata0a/data
drw-rw-rwx 1 0 0 8192 Feb 7 15:03 USFiles
drw-rw-rwx 1 0 0 8192 Jan 1 2000 UStransfiles
drw-rw-rwx 1 0 0 8192 Jan 1 2000 PCL5files
drw-rw-rwx 1 0 0 8192 Jan 1 2000 PCL6files
drw-rw-rwx 1 0 0 8192 Jan 1 2000 capture
drw-rw-rwx 1 0 0 8192 Jan 1 2000 hold
Listing Directory /ata0a/data/USFiles
drw-rw-rwx 1 0 0 8192 Jan 1 2000 Profiles
Listing Directory /ata0a/data/USFiles/Profiles
Listing Directory /ata0a/data/UStransfiles
Listing Directory /ata0a/data/PCL5files
drw-rw-rwx 1 0 0 8192 Jan 1 2000 hardfonts
drw-rw-rwx 1 0 0 8192 Jan 1 2000 hardmacros
drw-rw-rwx 1 0 0 8192 Jan 1 2000 hardpatterns
drw-rw-rwx 1 0 0 8192 Jan 1 2000 softfonts
drw-rw-rwx 1 0 0 8192 Jan 1 2000 softmacros
drw-rw-rwx 1 0 0 8192 Jan 1 2000 softpatterns
Listing Directory /ata0a/data/PCL5files/hardfonts
Listing Directory /ata0a/data/PCL5files/hardmacros
Listing Directory /ata0a/data/PCL5files/hardpatterns
```

The **Printer/Download Font/Form/List Directories/Disk Drive** window displays the list of files currently installed in the printer's hard disk.

Configuration Menu Equivalent:

MENU PRINT MENU/DIRECTORY LIST



A Hard Disk Not Installed message appears if no optional hard disk is installed in the printer.

List Directories/FLASH Memory

The screenshot shows a Microsoft Internet Explorer window titled "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The main content area displays a list of files in the printer's flash memory. The left sidebar has links for Local Interface, Default Setting, Download Font/Form, List Fonts, List Directories, Disk Drive, and FLASH Memory. The top menu bar includes File, Edit, View, Favorites, Tools, and Help. The tabs at the top are System (selected), Job, Print, Network, and Accounting. A banner for "Q-SHOP.com" is visible at the bottom of the sidebar.

Printer Name: magicolor 2450
FLASH Directory Path: /ffs0
***** FLASH DIRECTORY LISTING *****
Listing Directory /ffs0/data/USFiles
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 files
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 Resource
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 Profiles
-rwxrwxrwx 1 0 0 1003 Feb 7 15:03 cmsstat.txt
Listing Directory /ffs0/data/USFiles/files
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 fm
Listing Directory /ffs0/data/USFiles/files/fsm
Listing Directory /ffs0/data/USFiles/Resource
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 Font
drw-rw-rwx 1 0 0 1024 Feb 7 15:03 ColorRendering
Listing Directory /ffs0/data/USFiles/Resource/Font
-rwxrwxrwx 1 0 0 12975 Feb 7 15:03 Chd39bar
-rwxrwxrwx 1 0 0 14204 Feb 7 15:03 Chd39bar
-rwxrwxrwx 1 0 0 12691 Feb 7 15:03 Ean10upc
-rwxrwxrwx 1 0 0 12963 Feb 7 15:03 Ean13upc
-rwxrwxrwx 1 0 0 17573 Feb 7 15:03 HR3e9HD
-rwxrwxrwx 1 0 0 18037 Feb 7 15:03 HR3e9LD
-rwxrwxrwx 1 0 0 6939 Feb 7 15:03 Postnet
Listing Directory /ffs0/data/USFiles/Resource/ColorRendering
-rwxrwxrwx 1 0 0 47180 Feb 7 15:03 Perceptualnone ht101

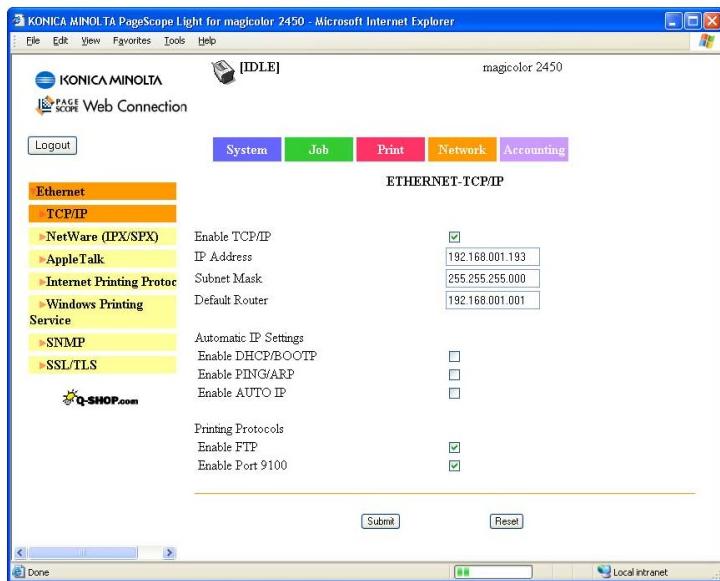
The Printer/Download Font/Form/List Directories/FLASH Memory window displays the list of files currently installed in the printer's flash memory.

Configuration Menu Equivalent:

MENU PRINT MENU/DIRECTORY LIST

Network Page

The Network page allows you to configure network settings. For more information on these protocols, see chapter 6, “Network Printing”.



Ethernet

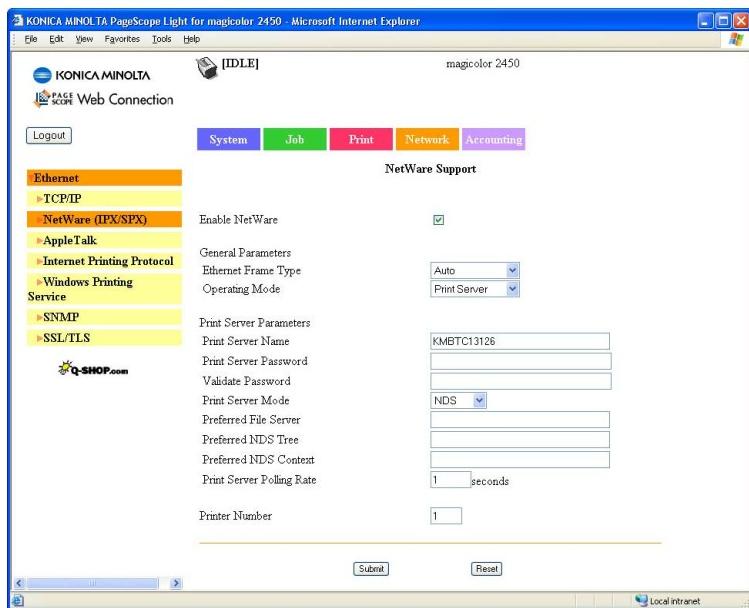
TCP/IP (shown above)

The **Network/Ethernet/TCP/IP** window provides the following parameters for configuration:

Item	Description
Enable TCP/IP	Enables the settings for TCP/IP. Default: [Checked] Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/ENABLE
IP Address	Sets the IP address. Default: 192.168.1.2 Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/IP ADDRESS

Item	Description	
Subnet Mask	Sets the subnet mask address. Default: 000.000.000.000 Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/SUBNET MASK	
Default Router	Sets the default router IP address. Default: 000.000.000.000 Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/DEFAULT ROUTER	
Automatic IP Settings	Enable DHCP/BOOTP	Selecting this check box enables DHCP. Default: [Checked] Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/DHCP/BOOTP
	Enable PING/ARP	Selecting this check box enables PING/ARP. Default: [Checked]
	Enable AUTO IP	Selecting this check box enables automatic IP detection. Default: [Not checked] Configuration Menu Equivalent: MENU INTERFACE MENU/ETHERNET/ TCP/IP/ENABLE AUTO IP
Printing Protocols	Enable FTP	Selecting this check box enables FTP. Default: [Checked]
	Enable Port 9100	Selecting this check box enables Port 9100. Default: [Checked]
Submit button		Saves and applies any changes made.
Reset button		If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

NetWare (IPX/SPX)

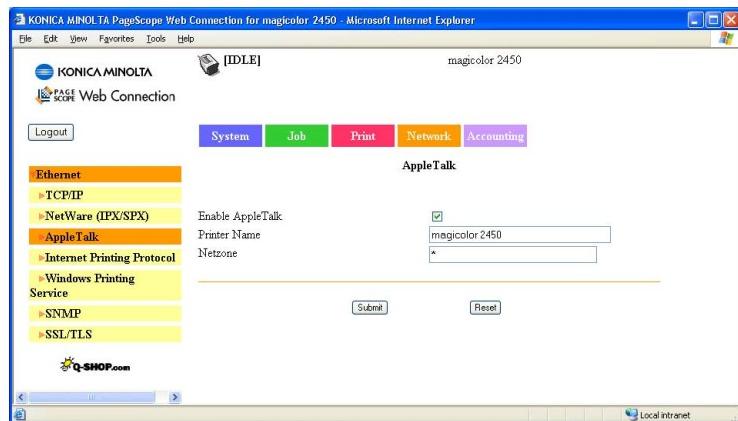


The **Network/Ethernet/NetWare (IPX/SPX)** window provides the following parameters for configuration:

Item	Description	
Enable NetWare	When selected, enables the NetWare settings. Default: [Checked]	
General Parameters	Ethernet Frame Type	Sets the Ethernet Frame Type. Choices: Auto, Ethernet 802.2, Ethernet 802.3, Ethernet II, Ethernet SNAP Default: Auto Configuration Menu Equivalent: MENU INTERFACE MENU/ ETHERNET/IPX/SPX/FRAME TYPE
	Operating Mode	Sets the operating mode. Choices: Print Server, Remote Printer Default: Print Server

Item	Description
Print Server Parameters	Print Server Name Sets the print server name. Range: Up to 64 characters Default: KMBTxxxxxx (Where x's are last 6 digits of MAC Address of the printer).
	Print Server Password If the print server requires a password, enter the password in this field. Range: Up to 64 characters Default: [Blank]
	Validate Password Used to validate the password entered in the Print Server Password field. Range: Up to 64 characters
	Print Server Mode Sets the print server mode. Choice: Bindery, Both, NDS Default: NDS
	Preferred File Server Sets the name of the preferred file server. Range: Up to 47 characters Default: [Blank]
	Preferred NDS Tree Identifies the NDS tree. Range: Up to 48 characters Default: [Blank]
	Preferred NDS Context Identifies the NDS context. Range: Up to 191 characters Default: [Blank]
	Print Server Polling Rate Sets the time interval (in seconds) that passes between print server pollings. Range: 1 - 65535 (in seconds) Default: 1
	Printer Number Allows you to assign a printer number for identification purposes. Range: 0 - 254 Default: 1
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

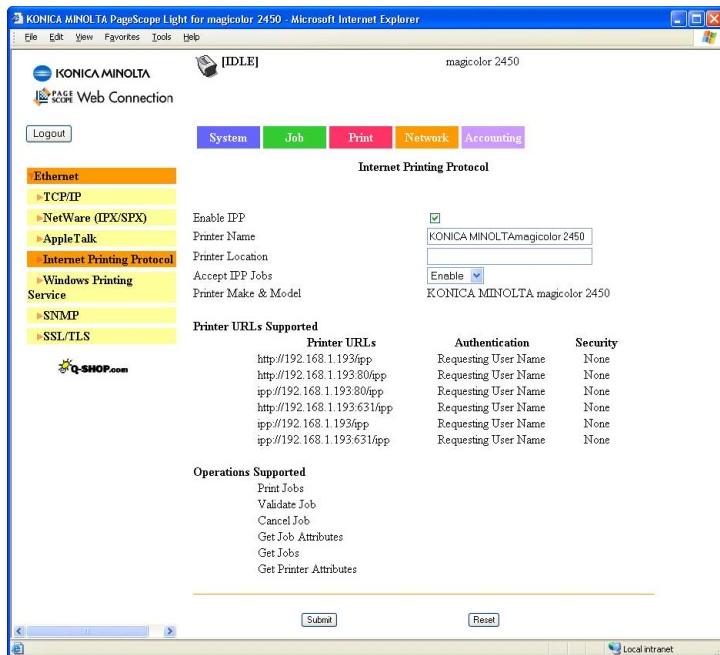
AppleTalk



The **Network/Ethernet/AppleTalk** window provides the following parameters for configuration:

Item	Description
Enable AppleTalk	When selected, enables the parameter settings for AppleTalk. Default: [Checked]
Printer Name	Identifies the printer name. Range: Up to 32 characters Default: magicolor 2450
Netzone	Identifies the zone where the printer is located. Range: Up to 32 characters Default: *
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Internet Printing Protocol

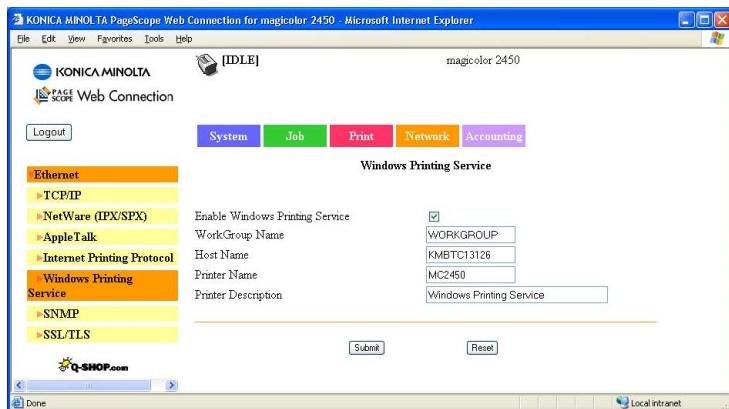


The **Network/Ethernet/Internet Printing Protocol** window provides the following parameters for configuration:

Item	Description
Enable IPP	When selected, enables the parameter settings for IPP. Default: [Checked]
Printer Name	Identifies the printer name. Range: Up to 128 characters Default: KONICA MINOLTAmagicolor 2450
Printer Location	Identifies the location of the printer. Range: Up to 128 characters Default: [Blank]
Accept IPP Jobs	When Enable is selected, allows the printer to process incoming IPP jobs. Choices: Enable, Disable Default: Enable
Printer Make & Model	Identifies the printer manufacturer and printer model. This text is read-only.

Item	Description
Printer URLs Supported	Displays the URLs supported by the printer. This text is read-only.
Operations Supported	This read-only text lists the operations supported.
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

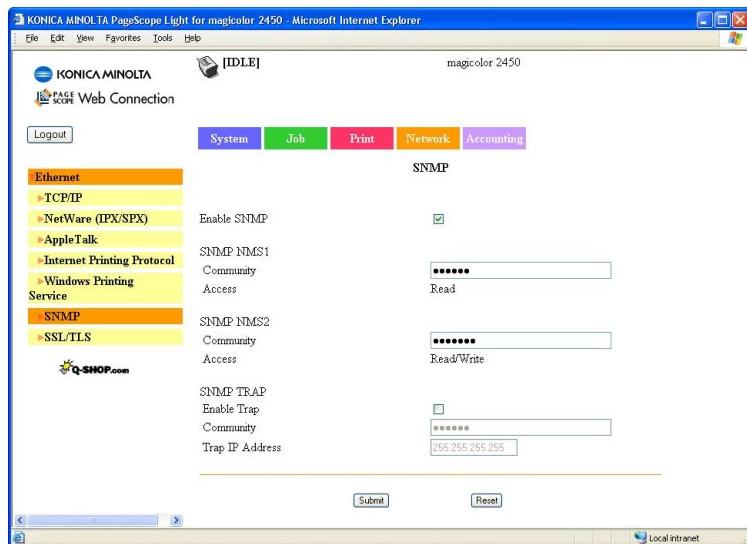
Windows Printing Service



The **Network/Ethernet/Windows Printing Service** window provides the following parameters for configuration:

Item	Description
Enable Windows Printing Service	If selected, enables the parameter settings for Windows printing service. Default: [Checked]
WorkGroup Name	Sets the workgroup name. Range: Up to 15 characters Default: WORKGROUP
Host Name	Sets the host name. Range: Up to 15 characters Default: KMBTxxxxxx (Where x's are last 6 digits of MAC Address of the printer).
Printer Name	Sets the printer name. Range: Up to 13 characters Default: MC2450
Printer Description	Sets the printer description. Range: Up to 32 characters Default: Windows Printing Service
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

SNMP



The **Network/Ethernet/SNMP** window provides the following parameters for configuration:

Item	Description	
Enable SNMP	If selected, enables the parameter settings for SNMP. Default: [Checked]	
SNMP NMS1	Community	Sets the IP community of the printer. Range: Up to 32 characters Default: public
	Access	Identifies Read or Write access.
SNMP NMS2	Community	Sets the IP community of the printer. Range: Up to 32 characters Default: private
	Access	Identifies Read or Write access.

Item	Description	
SNMP TRAP	Enable Trap	If this check box is selected, the Trap parameters (below the check box) are enabled. Default: [Not checked]
	Community	Sets the community of the printer. Default: public
	Trap IP Address	Sets IP address of the printer. Default: 255.255.255.255
Submit button	Saves and applies any changes made.	
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.	

SSL/TLS Setting



The **Network/SSL/TLS/SSL/TLS Setting** page allows you to select the following SSL/ TLS settings that appear.



As a default, SSL/TLS is not installed. Select **Create a self-signed Certificate** and click **Submit** to create a certificate and specify the SSL settings.

Item	Description
SSL/TSL Setting	Create a self-signed Certificate
	Displays the Self-signed Certificate Setting page.
	Request a Certificate
	Displays the Request Certificate Setting Page.
	Install a Certificate
	Displays the Install Certificate Setting Page.
Set encryption strength	Displays the Encryption Strength Setting Page. Only available if a certificate is currently installed.
Remove Certificate	Displays the Remove Certificate Setting Page. Only available if a certificate is currently installed.
SSL/TSL Mode	Displays the SSL/TLS Mode Setting Page. Only available if a certificate is currently installed.
Back button	Returns to the previous screen.
Submit button	Click to display the selected page.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Self-Signed Certificate Setting

The screenshot shows a Microsoft Internet Explorer window titled "KONICA MINOLTA PageScope Light for magicolor 2450 - Microsoft Internet Explorer". The main menu bar includes File, Edit, View, Favorites, Tools, and Help. Below the menu is a toolbar with icons for Logout, System, Job, Print, Network, and Accounting. A sidebar on the left lists network protocols: Ethernet, TCP/IP, NetWare (IPX/SPX), AppleTalk, Internet Printing Protocol, Windows Printing Service, SNMP, and SSL/TLS. The main content area is titled "Self-Signed Certificate Setting". It contains fields for Common Name (192.168.1.193), Organization, Organization Unit, Locality, State/Province, and Country Code. Below these are fields for Validity Start Date and Validity Period (30 days). An "Encryption Strength" dropdown menu is set to "3DES_168bits,RC4_128bits,DES_56bits or RC4_40bits". At the bottom are Back, Submit, and Reset buttons.

The **Network/SSL/TLS/Self-Signed Certificate Setting** page allows you to create a certificate and specify SSL settings.

Item	Description
Common Name	Identifies the IP address of the printer. <i>This text is read-only.</i>
Organization	Specify the name of the group or organization. Range: Up to 64 characters Default: [Blank]
Organization Unit	Specify the name of the post. Range: Up to 64 characters Default: [Blank]
Locality	Specify the name of the municipality. Range: Up to 128 characters Default: [Blank]
State/Province	Specify the name of the state or province. Range: Up to 128 characters Default: [Blank]

Item	Description
Country Code	Specify the name of the country as a country code regulated by ISO03166. Range: Up to 2 characters Default: [Blank]
Validity Start Date	Specifies the start date of the Self-Signed Certificate.
Validity Period	Specify the period of validity. Range: 1 - 3650 Default: 30
Encryption Strength	<p>Specify the encryption level.</p> <p>Choices:</p> <ul style="list-style-type: none"> ■ 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits ■ RC4_128bits, DES_56bits or RC4_40bits ■ DES_56bits or RC4_40bits <p>Default: 3DES_168bits,RC4_128bits, DES_56bits or RC4_40bits</p>
Back button	Returns to the previous screen.
Submit button	<p>Creates the self-signed certificate.</p> <p> <i>A few minutes are needed in order to create the certificate.</i></p>
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Request a certificate

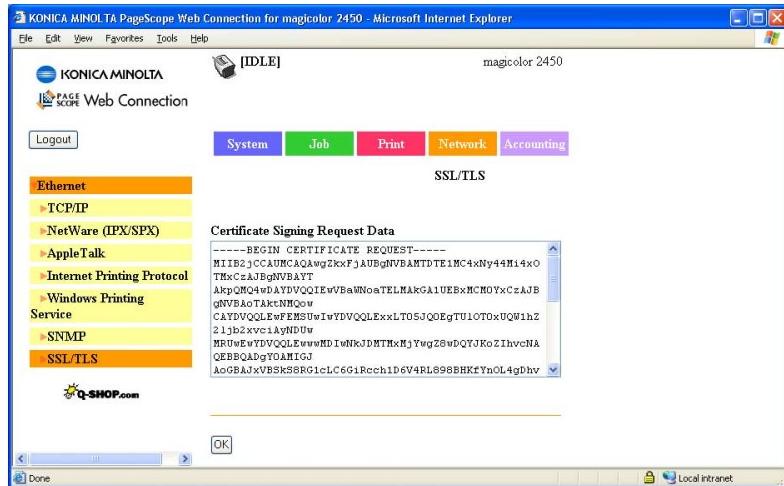
The screenshot shows a Microsoft Internet Explorer window titled "KONICA MINOLTA PageScope Web Connection for magicolor 2450 - Microsoft Internet Explorer". The page displays a sidebar with network protocols: Ethernet, TCP/IP, NetWare (IPX/SPX), AppleTalk, Internet Printing Protocol, Windows Printing Service, SNMP, and SSL/TLS. The SSL/TLS section is highlighted. The main content area is titled "Request a Certificate" and contains fields for Common Name (192.168.1.193), Organization, Organization Unit, Locality, State/Province, and Country Code. Below the form are "Back", "Submit", and "Reset" buttons. The status bar at the bottom shows "Done" and "Local intranet".

The **Network/SSL/TLS/Request a Certificate** page provides the following parameters for configuration:

Item	Description
Common Name	Displays the IP Address of the printer.
Organization	Specifies the name of the group or organization. Range: Up to 64 characters Default: [Blank]
Organization Unit	Specifies the name of the post. Range: Up to 64 characters Default: [Blank]
Locality	Specifies the name of the municipality. Range: Up to 128 characters Default: [Blank]
State/Province	Specifies the name of the state or province. Range: Up to 128 characters Default: [Blank]
Country	Specify the name of the country as a country code regulated by ISO3166. Range: Up to 2 characters Default: [Blank]

Item	Description
Submit button	Click to create data for requesting that a certificate be issued.
Back button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Cancel button	Resets all configuration settings to previous values.
Logout button	Logs out of Administrator Mode and returns to User Mode.

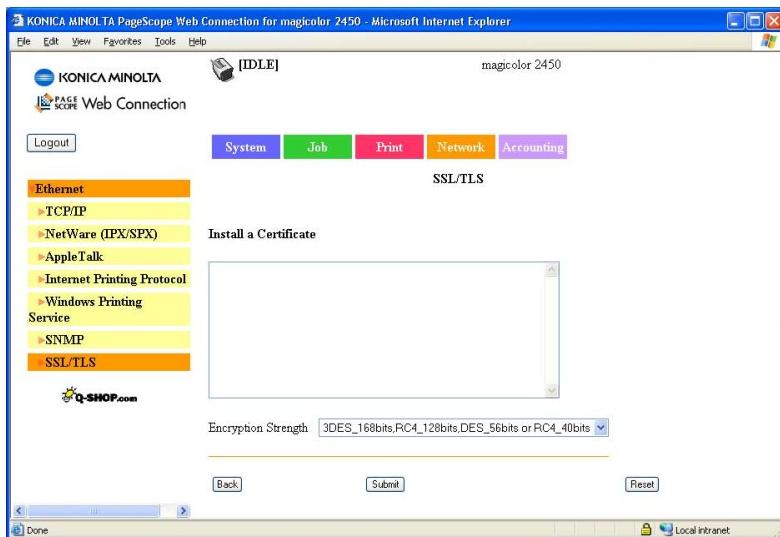
Certificate Signing Request Data



The **Network/SSL/TLS/Certificate Signing Request Data** page displays the data that will be submitted to the certificate authority to request that a certificate be issued.

Item	Description
Certificate Request	Displays the data that will be submitted to the certificate authority to request that a certificate be issued.
OK button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Logout button	Logs out of Administrator Mode and returns to User Mode.

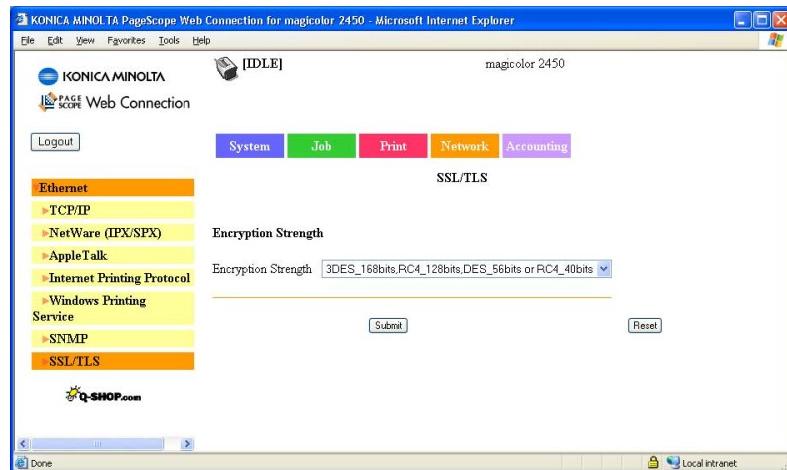
Install a Certificate



The **Network/SSL/TLS/Install a Certificate** page allows you to install the certificate issued by the certificate authority.

Item	Description
Install a Certificate	Attaches the CSR (certificate signing request) in the text format sent from the certificate authority.
Encryption Strength	Specifies the encryption level. Choices: <ul style="list-style-type: none">■ 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits■ RC4_128bits, DES_56bits or RC4_40bits■ DES_56bits or RC4_40bits Default: 3DES_168bits,RC4_128bits, DES_56bits or RC4_40bits
Submit button	Click to install the certificate.
Back button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.
Logout button	Logs out of Administrator Mode and returns to User Mode.

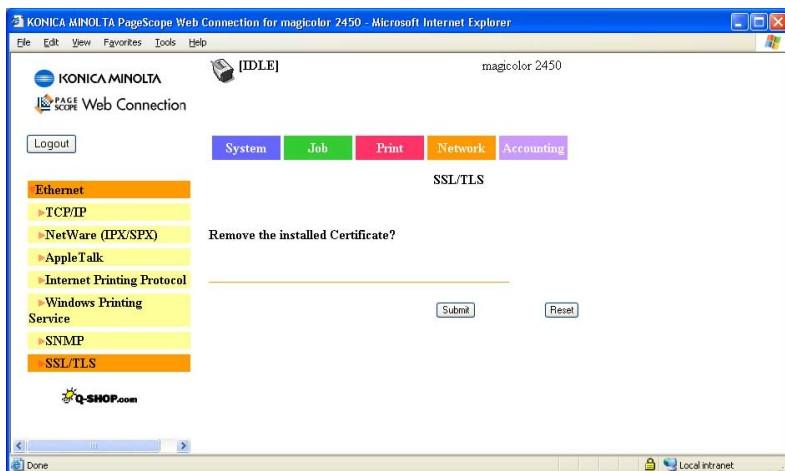
Encryption Strength



The **Network/SSL/TLS/Encryption Strength** page allows you to specify the encryption level.

Item	Description
Encryption Strength	Specifies the encryption level. Choices: <ul style="list-style-type: none">■ 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits■ RC4_128bits, DES_56bits or RC4_40bits■ DES_56bits or RC4_40bits Default: 3DES_168bits,RC4_128bits, DES_56bits or RC4_40bits
Submit button	Click to specify the encryption level.
Reset button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Logout button	Logs out of Administrator Mode and returns to User Mode.

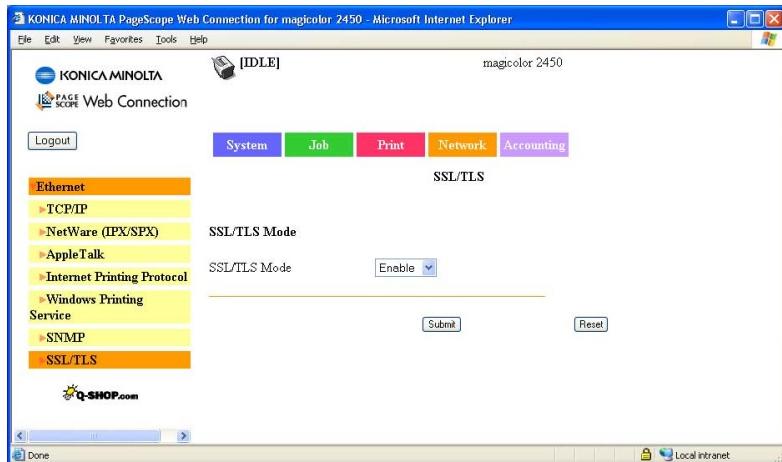
Remove Certificate



The **Network/SSL/TLS/Remove Certificate** page allows you to delete the installed certificate.

Item	Description
Submit button	Click to display a confirmation message. Click Submit in the confirmation message to delete the certificate.
Reset button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Logout button	Logs out of Administrator Mode and returns to User Mode.

SSL/TLS Mode

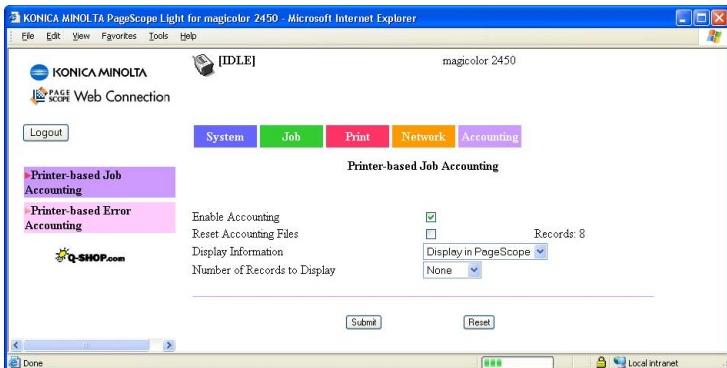


The **Network/SSL/TLS/SSL/TLS Mode** page allows SSL to be enabled or disabled.

Item	Description
SSL/TLS Mode	If Enable is displayed, SSL is enabled. If Disable is selected, SSL is disabled. Choice: Enable, Disable
Submit button	Saves and applies any changes mode.
Cancel button	Click to return to the Network/SSL/TLS/SSL/TLS Setting page.
Logout button	Logs out of Administrator Mode and returns to User Mode.

Accounting Page

If the optional hard disk is installed in the printer, the **Accounting** window allows you to view accounting reports and reset the Accounting file.



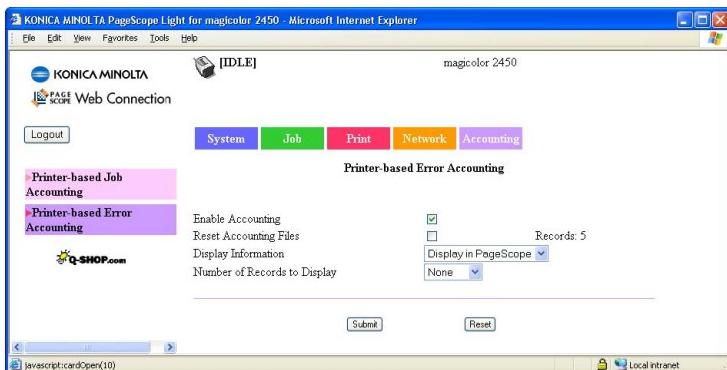
Printer-based Job Accounting (shown above)

The **Accounting/Printer-based Job Accounting** page allows you to check details of print jobs.

Item	Description
Enable Accounting	If selected, enables the parameter settings for Accounting. Default: [Checked]
Reset Accounting Files	Resets the accounting file located on the printer's internal hard disk. Default: [Not checked]
Display Information	Sets where the accounting records are to be displayed for your review. Choices: Upload to Host, Display in PageScope Default: Display in PageScope
Number of Records to Display	Sets the number of accounting file records that are to be displayed when Display in PageScope is selected in the Display Information field (described above). Choices: All, Last 10, Last 50, Last 100, Last 250, Last 500, None Default: None

Item	Description
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Printer-based Error Accounting



The **Accounting/Printer-based Error Accounting** page allows you to check details of print errors.

Item	Description
Enable Accounting	If selected, enables the parameter settings for Accounting. Default: [Checked]
Reset Accounting Files	Resets the accounting file located on the printer's internal hard disk. Default: [Not checked]
Display Information	Sets where the accounting records are to be displayed for your review. Choices: Upload to Host, Display in PageScope Default: Display in PageScope
Number of Records to Display	Sets the number of accounting file records that are to be displayed when Display in PageScope is selected in the Display Information field (described above). Choices: All, Last 10, Last 50, Last 100, Last 250, Last 500, None Default: None
Submit button	Saves and applies any changes made.
Reset button	If you made changes to any of the parameter settings but don't wish to apply the changes, selecting this button restores the last submitted parameter settings.

Index

A

Accounting, PageScope Web Connection 186
Printer-based Error Accounting 188
Printer-based Job Accounting 186
Administrator mode, PageScope Web Connection 120
AppleTalk 9
AppleTalk, PageScope Web Connection 169
Auto IP 95

B

BOOTP 94, 106

C

Capture Print Job, PageScope Web Connection 153
Certificate request, PageScope Web Connection 179
Certificate Signing Request Data, PageScope Web Connection 181
Chooser 45
Color Matching, PageScope Web Connection 130
Configuration
 Network settings 92
Configuration Page, PageScope Web Connection 146
Crown Print Monitor+ 88

D

- Date & Time, PageScope Web Connection** 140
- Default Router** 95
- DHCP** 94, 101, 106
- Direct Printing, PageScope Web Connection** 152
- Disk Operations, PageScope Web Connection** 148
- Download Manager Utility** 88

E

- E-Mail Configuration, PageScope Web Connection** 138
- Encryption strength, PageScope Web Connection** 183
- Ethernet interface** 101
- Ethernet menu** 92
 - Accessing 93
 - Auto IP 95
 - Default Router 95
 - DHCP/BOOTP 94
 - Ethernet Speed 97
 - EtherTalk 96
 - Gateway 95
 - IP address 94
 - IPX/SPX 96
 - PS Protocol 97
 - Subnet mask 95
 - Using options 94
- EtherTalk** 96

G

- Gateway** 95, 101
 - Manual setting 102
- General, PageScope Web Connection** 155

H

- Host table** 116
- HTTP** 107

I

- Install a certificate, PageScope Web Connection** 182
- Installing**
 - Certificate 182
 - Crown Print Monitor+ 88
 - Download Manager Utility 88
 - Management Information Base 88
 - PageScope Network Setup 88
 - Printer driver 3, 73
 - Printer Management Utility 88
 - Status Monitor 88
- Internet Printing Protocol, PageScope Web Connection** 170

- IP address** 94, 101
 - Manual setting 102
- IPP** 107, 170
 - Printing via 109
- IPX/SPX** 96, 167

J

- Job Listing, PageScope Web Connection** 150
- Job, PageScope Web Connection** 150
 - Capture Print Job 153
 - Direct Printing 152
 - Job Listing 150
 - Print Stored Job 151

L

- Linux**
 - Adding the printer 74
 - Checking print jobs 85
 - PPD file, installing 73
 - Print settings 81
 - Printer driver settings 76
 - System requirements 72
 - Troubleshooting 86
- List Directories/Disk Drive, PageScope Web Connection** 163
- List Directories/FLASH Memory, PageScope Web Connection** 164
- List Fonts/PCL Fonts, PageScope Web Connection** 162

List Fonts/PS Fonts, PageScope Web Connection 161
Localization Languages, PageScope Web Connection 136
LPD/LPR 107

M

Mac OS 9
Chooser 45
Options 45
Page setup settings 47
Printer driver, installing 43
System requirements 42
Troubleshooting 69

Mac OS X

Options 15
Page setup settings 17
Print settings 21
Printer driver, installing 3
Printer setup utility settings 6
System requirements 2
Troubleshooting 38

Management Information Base 88

N

NetWare 96, 167
NetWare (IPX/SPX), PageScope Web Connection 167
Network connection 100
Address setting 102
Ethernet interface 101
Making connections 101
Theory 100
Using DHCP 101
Network menu
Overview 92
Network printing 106
Network setting 92
Network, PageScope Web Connection 165
AppleTalk 169
Certificate Request 179
Certificate Signing Request Data 181
Encryption strength 183
Install a certificate 182

Internet Printing Protocol 170
NetWare (IPX/SPX) 167
Remove certificate 184
Request a certificate 179
Self-Signed Certificate Setting 177
SNMP 173
SSL/TLS Mode 185
SSL/TLS Setting 175
TCP/IP 165
Windows Printing Service 172

O

Online help, PageScope Web Connection 143

P

Page setup settings 17, 47
Custom paper size options 19, 48
Page attributes options 18, 47
Summary 20
PageScope Network Setup 88
PageScope Web Connection 114
Administrator mode 120
AppleTalk 169
Capture Print Job 153
Certificate request 179
Certificate Signing Request Data 181
Color Matching & Quality 130
Configuration Page 146
Current status 120
Date & Time 140
Direct Printing 152
Disk Operations 148
Display language 114
E-Mail Configuration 138
Encryption strength 183
General 155
Install a certificate 182
Internet Printing Protocol 170
Job Listing 150
List Directories/Disk Drive 163
List Directories/FLASH Memory 164
List Fonts/PCL Fonts 162
List Fonts/PS Fonts 161
Localization Languages 136

<p>Navigation 119 NetWare (IPX/SPX) 167 Online help 143 Paper Handling 123 Password 120 PCL 159 PostScript 157 Print Stored Job 151 Print System Pages 145 Printer-based Error Accounting 188 Printer-based Job Accounting 186 Remove certificate 184 Request a certificate 179 Requirements 114 Security 141 Self-Signed Certificate Setting 177 SNMP 173 SSL/TLS Mode 185 SSL/TLS Setting 175 Startup Options & Resets 133 Statistics Page 147 Summary 121 Supplies Status 132 TCP/IP 165 Tray Mapping 128 USB 154 User mode 120 Window 119 Windows Printing Service 172</p> <p>Paper Handling, PageScope Web Connection 123</p> <p>Password, PageScope Web Connection 141</p> <p>PCL, PageScope Web Connection 159</p> <p>Port 9100 108</p> <p>PostScript, PageScope Web Connection 157</p> <p>Print Center 6</p> <p>Print jobs</p> <ul style="list-style-type: none"> Checking 68, 85 <p>Print Stored Job, PageScope Web Connection 151</p> <p>Print System Pages, PageScope Web Connection 145</p>	<p>Print, PageScope Web Connection 154</p> <p>General 155</p> <p>List Directories/Disk Drive 163</p> <p>List Directories/FLASH Memory 164</p> <p>List Fonts/PCL Fonts 162</p> <p>List Fonts/PS Fonts 161</p> <p>PCL 159</p> <p>PostScript 157</p> <p>USB 154</p> <p>Printer name 116</p> <p>Printer setup utility 6</p> <ul style="list-style-type: none"> AppleTalk 9 IP printing setting 12 Network connection 9 USB connection 6 <p>Printer-based Error Accounting, PageScope Web Connection 188</p> <p>Printer-based Job Accounting, PageScope Web Connection 186</p> <p>Protocols, network</p> <ul style="list-style-type: none"> BOOTP 106 DHCP 106 HTTP 107 IPP 107 LPD/LPR 107 SLP 107 SMTP 108 SNMP 108
---	--

R

Remove certificate, PageScope Web Connection 184

Request a certificate, PageScope Web Connection 179

S

Safari 118

Security, PageScope Web Connection 141

Self-Signed Certificate Setting, PageScope Web Connection 177

- SLP 107
- SMTP 108
- SNMP 108

SNMP, PageScope Web Connection	173
SSL/TLS Mode, PageScope Web Connection	185
SSL/TLS Setting, PageScope Web Connection	175
Startup Options & Resets, PageScope Web Connection	133
Statistics Page, PageScope Web Connection	147
Status Monitor	88
Subnet mask	95, 101
Manual setting	102
Summary, PageScope Web Connection	121
Supplies Status, PageScope Web Connection	132
System requirements	
Linux	72
Mac OS 9	42
Mac OS X	2
System, PageScope Web Connection	
Color Matching & Quality	130
Configuration Page	146
Date & Time	140
Disk Operations	148
E-Mail Configuration	138
Localization Languages	136
Online help	143
Paper Handling	123
Print System Pages	145
Security	141
Startup Options & Resets	133
Statistics Page	147
Summary	121
Supplies Status	132
Tray Mapping	128

Mac OS X 38

U

USB, PageScope Web Connection	154
--------------------------------------	-----

User mode, PageScope Web Connection	120
--	-----

W

Web page, printer	116
--------------------------	-----

 Browser

 Printer name

Windows Printing Service, PageScope Web Connection	172
---	-----

T

TCP/IP, PageScope Web Connection	
---	--

165

Tray Mapping, PageScope Web Connection	128
---	-----

Troubleshooting	
------------------------	--

 Linux

 Mac OS 9

